

# Catalog 2012-2013

Southwestern Community College



College of the Great Smoky Mountains



447 College Drive • Sylva, North Carolina 28779  
www.southwesterncc.edu  
(828) 339.4000 • (800) 447.4091

Southwestern Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) (1866 Southern Lane, Decatur, Georgia 30033-4097, www.sacscoc.org), to award associate degrees. Questions concerning accreditation of Southwestern Community College may be made directly to the College or to SACS at (404) 679.4501.

Southwestern Community College issues this catalog to furnish prospective students and other interested people with information about the College and its programs. Announcements contained herein are subject to change without notice and may not be regarded as binding obligations to the College or the State of North Carolina.

Class offerings are subject to sufficient enrollment, and not all courses listed in this catalog are offered each semester. Throughout the year, course schedules are available on the College's website.

This catalog should not be considered a contract between Southwestern Community College and any prospective student. All charges for tuition and fees are subject to change as required by the North Carolina General Assembly and the Southwestern Community College Board of Trustees.

Course listings within specific academic programs may be altered to meet the needs of the individual program or academic division. Policy and procedural changes approved by the Board of Trustees during the inclusive dates of the catalog will be considered as official addenda to the publication.

An Equal Opportunity Institution  
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Cashiers Center  
217 Frank Allen Road • Cashiers, NC 28717  
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Cherokee Center  
171 Boys Club Loop Road • Cherokee, NC 28719  
(828) 497.7233

Jackson Campus  
447 College Drive • Sylva, NC 28779  
(828) 339.4000, (800) 447.4091

Macon Annex  
23 Macon Avenue • Franklin, NC 28734  
(828) 306.7034

Macon Campus  
815 Siler Road • Franklin, NC 28734  
(828) 306.7001

Jerry Sutton Public Safety Training Center  
225 Industrial Park Loop • Franklin, NC 28734  
(828) 306.7041

Swain Center  
60 Almond School Road • Bryson City, NC 28713  
(828) 366.2000

OICA - Oconaluftee Institute of Cultural Arts  
70 Bingo Loop Road • Cherokee, NC 28719  
(828) 497.3945



Congratulations! The fact that you are exploring Southwestern Community College's academic programs and services tells me a lot about you. For instance, I know you have made a decision to make postsecondary education a part of your life, which in turn will better your future and grow your intellectual and employability skills. We are honored that you are considering or have chosen SCC as your postsecondary educational provider.

You may be considering an associate degree, diploma, certificate, or just choosing to get your feet wet by taking a course or two. Whatever your goal at this stage in your life, we are ready to walk the path of success with you.

No matter how busy your schedule may be or whatever your interests, we are committed to you and your educational pursuits, and have a class for you here at SCC. Flexibility is a high value for us, as evidenced by our variety of online classes and programs. SCC has many course offerings at our different locations in Jackson, Macon and Swain counties. We truly believe in the "College Your Way" philosophy of giving you as many choices as possible for your education.

As an SCC student, you can select from a variety of degree, diploma and certificate programs. We offer 56 associate degree programs, 11 diploma programs and 30 certificate programs that can provide you with the education and skills needed to enter the workforce immediately upon graduation. Or, you can enroll in our associate in arts degree program which parallels the first two years of a bachelor's degree and then transfer your credits to a four-year university. Our articulation agreements with numerous colleges and universities will help to ease the transfer process and save you time and money on the cost of your bachelor's degree.

If you need to enhance your career skills, we've got the program for you, offered in conjunction with the North Carolina JobLink Career Centers located in Jackson, Macon and Swain counties. We provide one-on-one individualized assistance to evaluate and enhance your workforce readiness skills or retrain you for a new career, while giving you the opportunity to earn valuable college credits. From basic skills such as how to search for a job, write your resume or dress for interviews to completing your high school diploma, we are able to help you in obtaining a career. We can also prepare you for your Workforce Readiness Certification, which enables new and existing employers to identify you as a potential employee with valuable skills.

Postsecondary education is not easy, nor should it be. As citizens of this great region and state, you are the leaders of tomorrow. Some of you are leaders of today. Leadership and citizenship are the cornerstones of our great country and we are all faced with living in an increasingly complex and complicated technological world. The challenges to our globe are significant and call for our very best thinking and problem-solving capabilities.

At SCC we are committed to providing a curriculum, be it a course, program, or degree that will challenge you intellectually and cultivate your problem-solving skills. We want you to learn how to learn, to investigate problems and reach viable solutions. This process calls for hard work and commitment. We are committed to modeling these attributes as we work with you. We are confident that you will challenge yourself, grow in substantial ways and become all that you can be.

Thank you for trusting us to be a part of your significant and successful life journey.

Sincerely,

A handwritten signature in black ink that reads "Don Tomas". The signature is written in a cursive style with a large, stylized initial "D".

Don Tomas, Ed.D.  
President

## 2012 FALL SEMESTER

Welcome Back Day.....	Thursday, August 9
Faculty Work Day.....	Friday, August 10
Orientation/Registration.....	Monday, August 13
Final Registration.....	Tuesday, August 14
Classes Begin, Full and First Sessions.....	Wednesday, August 15
Schedule Adjustment – First Session.....	Wednesday & Thursday, August 15 & 16
Schedule Adjustment – Full Session.....	Wednesday – Tuesday, August 15 – 21
Labor Day Holiday – College Closed.....	Monday, September 3
Citizenship/Constitution Day Observed.....	Monday, September 17
Last Day to Withdraw, First Session.....	Monday, September 24
End of First Session Classes.....	Wednesday, October 10
Second Session Classes Begin.....	Thursday, October 11
Schedule Adjustment – Second Session.....	Thursday & Friday, October 11 & 12
Fall Break – No Classes.....	Wednesday – Sunday, October 17 – 21
Commencement Applications Due.....	Friday, October 26
Last Day to Withdraw, Full Session.....	Thursday, November 1
Registration Begins for Spring 2013.....	Monday, November 12
Thanksgiving Break – No Classes.....	Wednesday, November 21
Thanksgiving Holiday – College Closed.....	Thursday – Sunday, November 22 – 25
Last day to Withdraw, Second Session.....	Thursday, November 27
Fall Semester Ends, Full and Second Sessions (last day of classes).....	Thursday, December 13
Grades Due/Commencement.....	Friday, December 14
Holiday Break - College Closed.....	Wednesday, December 19, 2012 – Tuesday, January 1, 2013

## 2013 SPRING SEMESTER

College Reopens.....	Wednesday, January 2
Faculty Development Day.....	Thursday, January 3
Final Registration Day.....	Friday, January 4
Classes Begin, Full and First Sessions.....	Monday, January 7
Schedule Adjustment – First Session.....	Monday & Tuesday, January 7 & 8
Schedule Adjustment – Full Session.....	Monday – Friday, January 7 – 11
Martin Luther King, Jr. Day – College Closed.....	Monday, January 21
Last Day to Withdraw, First Session.....	Thursday, February 14
End of First Session Classes.....	Monday, March 4
Second Session Classes Begin.....	Tuesday, March 5
Schedule Adjustment – Second Session.....	Tuesday & Wednesday, March 5 & 6
Commencement Applications Due.....	Thursday, March 21
Last Day to Withdraw, Full Session.....	Thursday, March 21
Spring Break – No Classes.....	Monday – Sunday, March 25 – 31
Easter Break – College Closed.....	Friday – Sunday, March 29 – 31
Registration Begins for Summer/Fall 2013.....	Monday, April 8
Last Day to Withdraw, Second Session.....	Monday, April 22
Spring Semester Ends, Full and Second Sessions (last day of classes).....	Monday, May 6
Grades Due/Commencements.....	Tuesday, May 7

**2013 SUMMER SEMESTER**

Registration Day .....	Wednesday, May 15
First/Full Session Classes Begin.....	Thursday, May 16
Schedule Adjustment – Period, First and Full Sessions.....	Thursday – Monday, May 16 – 20
Memorial Day – College Closed.....	Monday, May 27
Last Day to Withdraw from First Summer Session.....	Wednesday, June 12
First Session Classes End.....	Thursday, June 20
First Session Grades Due/Registration/ Second Session Classes Begin/Full Session Continues.....	Friday, June 21
Schedule Adjustment – Period, Second Session .....	Friday & Monday, June 21 & 24
Commencement Applications Due .....	Thursday, June 20
Independence Day Holiday - College Closed.....	Thursday – Sunday, July 4 – 7
Last Day to Withdraw from Full Summer Session .....	Tuesday, July 9
Last Day to Withdraw from Second Summer Session.....	Thursday, July 18
Summer Semester Ends, Full and Second Sessions.....	Monday, July 29
Grades Due/Commencement.....	Tuesday, July 30

**STAFF HOLIDAY CALENDAR**

Labor Day.....	Monday, September 3, 2012
Thanksgiving Holiday.....	Thursday & Friday, November 22 & 23, 2012
Holiday Break.....	Wednesday, December 19, 2012 - Tuesday, January 1, 2013
Martin Luther King Holiday.....	Monday, January 21, 2013
Easter Break.....	Friday, March 29, 2013
Memorial Day.....	Monday, May 27, 2013
Independence Day Holiday.....	Thursday & Friday, July 4 & 5, 2013

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## ABOUT SCC

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- Southwestern Community College Foundation, Inc.
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- Jackson Campus Map
- Macon Campus





**COLLEGE VISION**

Southwestern Community College will be:

- A Gateway for enriching lives and broadening horizons
- A Guiding Force in growing and caring for our mountain community
- A Creative Partner in collaborative solutions

**COMPLIANCE**

It is the policy of Southwestern Community College that no qualified person shall be excluded from participation in, declined the benefits of, or subjected to discrimination under any college program or activity on the basis of race, color, national origin, sex, age or disability.

Southwestern Community College complies with Titles VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990.

**GOVERNANCE**

Southwestern Community College is one of 58 institutions operating in the North Carolina Community College System, a statewide organization of public, two-year, postsecondary educational institutions. The college is governed by a local Board of Trustees within the framework of the Community Colleges Act, Chapter 115D of the General Statutes of North Carolina. The board consists of 13 Trustees—five appointed by the county commissioners, four appointed by the Board of Education, four appointed by the Governor of North Carolina—and one Ex-officio Student Trustee.

The objective of the Board of Trustees is to assure that Southwestern Community College achieves its mission within the guidelines established by the State Board of Community Colleges and the State of North Carolina.

**INSTITUTIONAL GOALS**

The College will...

1. Seek excellence in learning and teaching for transfer, vocational and technical education, literacy development, business and industry training and life-long learning in an accessible format to serve a diverse population.
2. Maintain a nurturing learning environment by providing comprehensive support and intervention services for every individual.
3. Proactively identify, acquire and maintain college resources to support the vision, mission and goals of the College.
4. Attract and retain quality employees and provide for their personal and intellectual growth.
5. Develop cooperative community-based relationships which contribute to the cultural, economic, educational and social betterment of the region.
6. Assess institutional effectiveness as part of the planning and renewal process based on continuous improvement principles.
7. Effectively promote the College to the community.

## INSTITUTIONAL PROFILE

Southwestern Community College was established in Sylva on Dec. 1, 1964 as the Jackson County Industrial Education Center, a satellite unit of Asheville-Buncombe Technical Institute. Since achieving independent status in the fall of 1967, the College (then known as Southwestern Technical Institute) has greatly expanded its educational and training services to the residents of Jackson, Macon and Swain counties.

Initially, the Jackson County Industrial Education Center was approved to offer four programs of study: automotive mechanics; carpentry and cabinetmaking; block and brick masonry; and radio, television and small-appliance repair. When the center opened its doors in 1964, a total of 133 students were enrolled in short-term courses. An additional 60 were enrolled in full-day classes.

Currently, including all diploma, certificate and associate's degree curricula as well as concentrations, instruction is provided in more than 74 programs. In addition to the Jackson Campus, the College opened a Macon Campus in 2007 and also operates four centers located in Bryson City, Cherokee, Franklin and Cashiers. More than 2,600 students enroll annually in credit courses, and more than 5,500 (unduplicated) participate in a wide variety of courses, workshops and seminars offered through Continuing Education.

Located on a 57-acre tract of land on North Carolina Highway 116 between Webster and Sylva, the Southwestern Community College Jackson Campus consists of seven buildings, totaling 194,728 square feet, including a Library. Centrally located to serve southwestern North Carolina, the College is 50 miles southwest of Asheville, NC, and 90 miles southeast of Knoxville, TN.

Southwestern Community College's three-county service area totals 1,534 square miles (30 percent larger than the state of Rhode Island) and has a population of approximately 78,000. The area is noted for the beautiful Smoky Mountains and the variety of recreational opportunities available.

## MISSION STATEMENT

Southwestern Community College is a comprehensive learning and teaching institution offering high-quality, innovative instruction and support to all who need and value these services. Seamless links with the community, advanced technology and a culturally rich environment promote student achievement and academic excellence.

Southwestern Community College accomplishes its mission through customer focus, continuous improvement and teamwork:

- to awaken the potential of each student, offering multiple pathways for learning what is important to know and to do—giving coherence and meaning to the total educational experience,
- to aggressively pursue the most current technologies while maintaining a nurturing atmosphere which appreciates the value of every individual,
- to be a catalyst for community service—removing barriers, creating linkages, building relationships and integrating resources to enhance the quality of life,
- to be a leader in economic development and a mindful steward of the natural and cultural resources of the area,
- to prepare citizens to live, learn and work in a diverse global village.

### **SERVICE EXCELLENCE**

Service is how we relate to people we interact with every day. At Southwestern Community College, the needs of our students will remain our highest priority. We serve an internal and external clientele including current and prospective students, employees, and community members. Our student-centered service philosophy forms the very basis for how we do our jobs.

- Greet people with courtesy.
- Demonstrate professionalism.
- Communicate with accurate information.
- Demonstrate a welcoming and helpful manner.
- Respect the needs of others.
- Take positive action on behalf of others.

### **SOUTHWESTERN COMMUNITY COLLEGE FOUNDATION, INC.**

Southwestern Community College Foundation, Inc. was established in 1973 to provide additional financial support for the College through private donations. The Foundation supports student scholarships and other specific projects to improve the educational programs and development of Southwestern Community College.

Gifts to the Foundation are deductible on federal and state income tax reports, both individual and corporate, up to the limitations of applicable laws. All gifts, large or small, are appreciated and may be designated for specific projects supported by the Foundation.

### **ACCREDITATION AND APPROVAL**

Southwestern Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Associate Degrees. SCC is one of 58 colleges operating in the North Carolina Community College System, a statewide organization of public two-year postsecondary educational institutions.

### **SPECIALIZED PROGRAMMATIC ACCREDITING AND APPROVAL AGENCIES**

- Commission on Accreditation of Allied Health Education Programs (CAAHEP) - Advanced Level Respiratory Therapy Program
- Com. on Accreditation for Health Informatics and Info. Management Ed. (CAHIIM)
- Commission on Accreditation for Respiratory Care (COARC)
- Commission on Accreditation in Physical Therapy Education (CAPTE)
- Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS)
- Joint Review Committee on Education in Radiologic Technology (JRCERT)
- National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
- National Automotive Technicians Education Foundation (NATEF)
- North Carolina Bar Board of Paralegal Certification
- North Carolina Board of Cosmetic Arts
- North Carolina Board of Massage and Bodywork Therapy
- North Carolina Board of Nursing
- North Carolina Criminal Justice Standards and Training Commission
- North Carolina Department of Health and Human Services, Division of Facility Services, Office of Emergency Medical Science
- North Carolina Real Estate Commission
- North Carolina Sheriff's Standards and Training Commission
- North Carolina State Approving Agency for Veterans & Military Education Programs
- United States Department of the Interior National Park Service

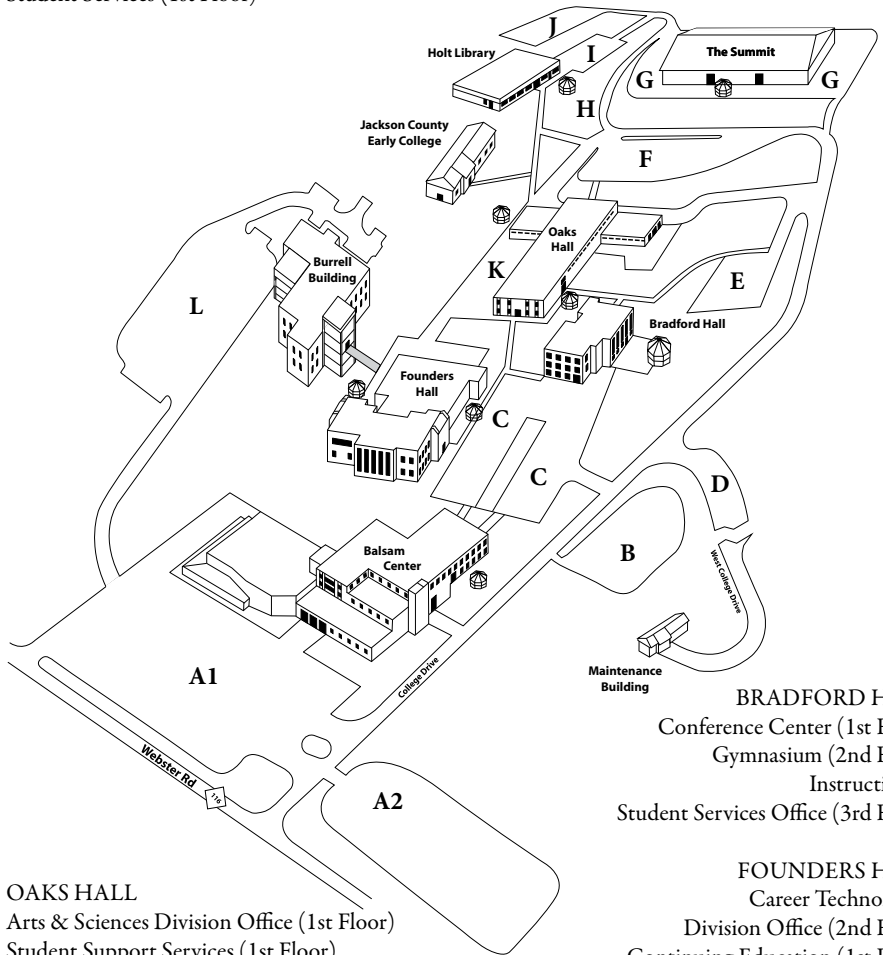
JACKSON CAMPUS MAP

**BALSAM CENTER**

- Admissions Office (1st Floor)
- Auditorium (1st Floor)
- Business Office (1st Floor)
- Career Counseling (1st Floor)
- College Access (1st Floor)
- Financial Aid (1st Floor)
- Health Sciences Division (2nd Floor)
- Registrar (1st Floor)
- Technology Services (3rd Floor)
- Student Services (1st Floor)

**BURRELL BUILDING**

- Bookstore (3rd Floor)
- Conference Center (1st Floor)
- Classrooms (2nd & 3rd Floor)
- Faculty Offices (2nd Floor)
- Institutional Research (1st Floor)
- President's Office (1st Floor)
- Slagle Board Room (1st Floor)
- Resource & Community Development (1st Floor)



**OAKS HALL**

- Arts & Sciences Division Office (1st Floor)
- Student Support Services (1st Floor)
- Disability Services Office (1st Floor)
- Learning Assistance Center (2nd Floor)
- Student Success Office (2nd Floor)

- HOLT LIBRARY (The Pines)**
- Public Information

- BRADFORD HALL**
- Conference Center (1st Floor)
- Gymnasium (2nd Floor)
- Instruction & Student Services Office (3rd Floor)

- FOUNDERS HALL**
- Career Technologies Division Office (2nd Floor)
- Continuing Education (1st Floor)
- Cosmetology (1st Floor)

- THE SUMMIT**
- Classrooms

### MACON CAMPUS

The Macon Campus is located at 44 Siler Farm Rd in Franklin, NC in a high-tech, state-of-the-art facility. This is the beginning of a resource-rich campus, offering technology-enhanced learning with computer laboratories, virtual and interactive classrooms, and access to major research institutions. The Macon Campus Groves Center houses administration, computer labs, a learning assistance center, general classrooms, and Macon Early College. SCC at Macon also maintains classrooms at the Macon Campus Annex located downtown Franklin at 23 Macon Avenue behind the Macon County Courthouse. The Annex houses administrative staff, GED and other literacy programming, as well as continuing education classes.



Current curriculum based programs offered at the Macon Campus include:

College Transfer- AA Degree

Pre-major in Arts (may include some online coursework)

- Business Administration, Accounting, Economics, Finance & Marketing
- Criminal Justice
- Elementary Education
- English Education
- History
- Middle Grades Education
- Nursing (please note this is not the RN AAS degree)
- Physical Education
- Political Science
- Psychology
- Social Science Secondary Education
- Sociology
- Special Education

Criminal Justice- AAS Degree

General Education Diploma

Real Estate- Certificate

Additional course offerings (not full degree programs):

Emergency Medical Science—EMS 110 Course

Health Information Technology—First Year General Education and Medical Terminology

Human Services Technology—Some Substance Abuse Certificate classes available

Pre-Health Science Track

In addition to the curriculum offerings there will be a variety of continuing education classes available:

- Business and Industry Training
- Basic Skills and Literacy Classes
- Occupational/Certification/Licensure Courses
- Nursing Assistant
- Small Business Center Courses

### **Macon Early College**

The Macon Campus is also home to the Macon Early College high school program. This high school is housed in the Ledford Building on the SCC Macon Campus and is designed for students who seek a different public school experience that allows them to earn college and high school credit simultaneously. Students have the potential to graduate in five years with both a high school diploma and Associates Degree. For additional information about the program, please call the MEC office at (828) 306.7006.

For additional information about the Macon Campus, please call (828) 306.7001.

### **VIRTUAL CAMPUS TOURS**

Videos of SCC Campuses and Centers are available on the College's YouTube channel at <http://www.youtube.com/user/1scnc>

IMPORTANT NUMBERS—JACKSON CAMPUS  
**(800) 447.4091 • (828) 339.4000**

Arts & Sciences - Oaks Hall, 1 <sup>st</sup> Floor .....	Ext. 4300
Barbara Putman, Dean of Arts & Sciences	
Kathy Thomas, Administrative Assistant	
Career Technologies - Founders Hall, 2 <sup>nd</sup> Floor .....	Ext. 4204
Scott Baker, Dean of Career Technologies	
Claudia Buchanan, Administrative Assistant	
College Access - Balsam Center, 1 <sup>st</sup> Floor	
Cindy Thompson, College Access Coordinator .....	Ext. 4610
Erin McManus, Jackson Early College Liaison.....	Ext. 4433
Continuing Education - Founders Hall, 1 <sup>st</sup> Floor.....	Ext. 4426
Sonja Haynes, Dean of Workforce and Economic Development	
Latresa Downs, Administrative Assistant	
Educational Opportunities - Founders Hall, 1 <sup>st</sup> Floor.....	Ext. 4361
Darlene Anderson, Educational Opportunities Director	
Mindy Conner, Administrative Assistant	
Health Sciences - Balsam Center, 2 <sup>nd</sup> Floor.....	Ext. 4305
Mitch Fischer, Dean of Health Sciences	
Amanda Pressley, Administrative Assistant	
Holt Library	
Dianne Lindgren, Director.....	Ext. 4269
Vickie Lepore, Librarian.....	Ext. 4268
Instruction & Student Services - Bradford Hall, 3 <sup>rd</sup> Floor.....	Ext. 4377
Thom Brooks, Vice President for Instruction and Student Services	
Betsy Clayton, Administrative Assistant	
Learning Assistance Center - Oaks Hall, 2 <sup>nd</sup> Floor.....	Ext. 4325
Toni Knott, Coordinator	
Student Services - Balsam Center, 1 <sup>st</sup> Floor	
Philip Weast, Dean of Student Services .....	Ext. 4431
Dominique Benson, Admissions Officer .....	Ext. 4217
Jody Woodring, Administrative Assistant: Admissions .....	Ext. 4253
Kathy Owens, Administrative Assistant: Enrollment Services .....	Ext. 4352
Patty Kirkley, Career Planning & Placement Coordinator.....	Ext. 4212
Christy Deaver, Registrar .....	Ext. 4406
Jay Sain, Testing Coordinator/Enrollment Counselor .....	Ext. 4332
Melody Lawrence, Financial Aid Director .....	Ext. 4224
Cathy Setser, Financial Aid Technician.....	Ext. 4338
Student Support Services - Oaks Hall, 1 <sup>st</sup> Floor	
Cheryl Contino-Conner, Director .....	Ext. 4245
Peter Buck, Counselor .....	Ext. 4243
Laurie Butler, Advisor/Tutor Coordinator .....	Ext. 4231
Marji Elzey, Administrative Assistant.....	Ext. 4420
Wesley Satterwhite, Student Disability Coordinator .....	Ext. 4229
Suzanne Vincent, College Readiness Coordinator (Swain Center Office).....	366-2001
Robin Whitley, Academic Advocate (Oaks Hall) .....	Ext. 4476

IMPORTANT NUMBERS— MACON CAMPUS

**(800) 447.4091 • (828) 369.7331**

Macon Campus Administration

Cheryl Davids, Dean of Macon Campus ..... Ext. 7018  
 Margaret Sutton, Administrative Assistant ..... Ext. 7001

Business and Industry Training

Tommy Dennison, Coordinator ..... Ext. 7019

Business Services

Julie Voorhees, Coordinator ..... Ext. 7013

Educational Opportunities

Rita Gregory, Coordinator ..... Ext. 7020

Learning Assistance Center

Art Buesch, Coordinator ..... Ext. 7028

Student Services

Fairley Pollock, Coordinator ..... Ext. 7017



## CENTERS/CAMPUSES

### Cashiers Center

The Cashiers Center located on Frank Allen Road, contains computer labs, general classrooms and personal development facilities. In addition to coordinating general extension and curriculum needs of the Cashiers-Highlands area, this office provides community service classes and healthcare training and workshops for all three counties. For additional information call (828) 339.4497 or visit [www.southwesterncc.edu/content/cashiers-center](http://www.southwesterncc.edu/content/cashiers-center)

### Cherokee Center

The Cherokee Center is located on 171 Boys Club Loop Road in Cherokee. It contains a computer lab, personal development classroom, an ITV classroom, and two general classrooms. Extension and curriculum needs of the Qualla Boundary are coordinated from this Center. For additional information, call (828) 497.7233 or visit [www.southwesterncc.edu/content/charokee-center](http://www.southwesterncc.edu/content/charokee-center)

### Jackson Campus

Housed in the Founders Hall on the Jackson Campus, extension facilities include a computer lab and many classrooms shared with curriculum programs. The office coordinates the Extension Education division and coordinates the Basic Skills, Literacy and GED preparation programs. For additional information, call (828) 339.4426 or (800) 447.4091, ext. 4426, or visit [www.southwesterncc.edu/about-us/campus-tour](http://www.southwesterncc.edu/about-us/campus-tour)

### Jerry Sutton Public Safety Training Center

The Jerry Sutton Public Safety Training Center is located in the Macon County Industrial Park, Highway 64 West. The facility is primarily dedicated to coordinating the College's Public Safety Training Programs and has general classrooms, a computer lab, a weight training room, multipurpose room and ITV classroom.

The Fire and Rescue Training Facility and the driver training range is also located in the Industrial Park. For information about any Public Safety Training program, call (828) 306.7041 or visit [www.southwesterncc.edu/content/jerry-sutton-public-safety-training-center](http://www.southwesterncc.edu/content/jerry-sutton-public-safety-training-center)

### Macon Annex

The Macon Annex is located in downtown Franklin at 23 Macon Avenue behind the Macon County Courthouse Annex. The Macon Annex facility houses administration, computer labs, and general classrooms with GED Prep courses, English As A Second Language classes, curriculum and continuing education offerings.

The Macon Annex Center coordinates the Professional Licensure and Certification courses for the service area, as well as managing six trade programs at the Lyndon B. Johnson Job Corp Center, two programs at the Oconaluftee Job Corps and providing facilitation for special on-line extension education programs. For additional information, call (828) 306.7034 or 306.7033 or visit [www.southwesterncc.edu/content/macon-annex](http://www.southwesterncc.edu/content/macon-annex)

### Macon Campus

The Macon Campus is located at 44 Siler Farm Rd in Franklin, NC in a high-tech, state of the art facility. See page 6 for additional details or call (828) 306.7001.

### Swain Center

Located 5 ½ miles west of Bryson City on Highway 74 in the Luada Community, the Swain Center occupies the old Almond School. This charming old school building houses the Institute of Heritage Arts, the Small Business and Business and Industry Center, the Outdoor Leadership program, computer labs, general classrooms and an ITV classroom. Phone (828) 366.2000 or visit [www.southwesterncc.edu/content/swain-center](http://www.southwesterncc.edu/content/swain-center)

# ADMISSIONS/ENROLLMENT

- Admissions/Enrollment
- Steps to Enroll
- Application for Admission
- Testing
- Orientation
- mySCC/Web Mail/Information Technology
- Attendance Requirements
- College Access
- Other Enrollment Policies
- Registration
- Other Enrollment Procedures



## ADMISSIONS/ENROLLMENT

### Policy

Southwestern Community College operates under the Open-Door Policy of the North Carolina Community College System. Students are admitted without regard to race, religion, sex, color, creed, national origin, age or disability.

### Admission to the College

Any person who is at least 18 years of age or a high school graduate or its equivalent may be admitted by the College. Verification of high school graduation or equivalency shall be in the form of an official high school transcript or documentation of GED scores. Upon admission to a curriculum program, an applicant must attain the designated scores on the SAT, ACT or the College placement test. Students failing to attain the designated scores will be required to successfully complete appropriate developmental course work (see Testing section on page 15). Admission to the College does not imply immediate admission to the curriculum desired by the applicant, and admission to certain Health Science programs may have additional specific entrance requirements. A high school diploma or the equivalent is **not** required for admission to the following Certificate programs:

- Air Conditioning, Heating, Refrig. Technology
- Automotive Systems Technology
- Culinary Arts
- Electrical/Electronics Technology
- Trade - Welding

High school age students may be admitted into curriculum courses based upon the requirements established in the Career and College Promise program adopted by the State of North Carolina and the College. For more information about the Career and College Promise program, please see page 19 or contact Cindy Thompson, College Access Coordinator at (828) 339.4610 or [cindy\\_thompson@southwesterncc.edu](mailto:cindy_thompson@southwesterncc.edu).

### Admission Refusal

The college reserves the right to refuse admission to any applicant during any period of time that the student is suspended or expelled from another college or educational entity for non-academic disciplinary reasons. The college reserves the right to refuse admission to any applicant if it is necessary to protect the safety of the applicant or other individuals. The Dean of Student Services administers the admissions process and the appeals procedure.

### False Information

Applicants are expected to demonstrate honesty in the completion of all necessary forms. False information will be grounds for rejection or dismissal.

### Registered Sex Offenders

All newly admitted students who are classified as registered sex offenders must identify themselves by meeting with the Dean of Student Services **PRIOR** to registering for classes.

### Use of Social Security Numbers

The college collects social security numbers from all applicants for admission to ensure accurate records for required federal and state reporting. The college protects and restricts access to this information and assigns an ID# to each applicant.

**Admission to a Program of Study**

Admission to a degree, diploma or selected certificate program requires a high school diploma or the equivalent. An official transcript from a valid high school is required. Students who interrupt their course of study must reapply. The Dean of Student Services coordinates and administers all admission requirements, policies and procedures.

If you have a ...	You may be eligible to enroll in...
<ul style="list-style-type: none"> <li>• A High School Diploma</li> </ul>	<ul style="list-style-type: none"> <li>• All programs **</li> </ul>
<ul style="list-style-type: none"> <li>• A GED</li> </ul>	<ul style="list-style-type: none"> <li>• All programs **</li> </ul>
<ul style="list-style-type: none"> <li>• No high school diploma or GED</li> </ul>	<ul style="list-style-type: none"> <li>• Specific courses as Special Credit</li> <li>• GED Program</li> <li>• Adult High School Diploma Program</li> <li>• The following Certificate programs:                             <ul style="list-style-type: none"> <li>• Air Conditioning, Heating, Refrig. Tech.</li> <li>• Automotive Systems Technology</li> <li>• Culinary Arts</li> <li>• Electrical/Electronics Technology</li> <li>• Trades - Welding</li> </ul> </li> <li>• Other certificate programs may be available - contact Admissions at (828) 339.4352.</li> </ul>

\*\* See selective admission health science programs on the following pages.

**How to Contact the Admissions Office**

Location: Jackson Campus, Balsam Center, 1st Floor  
 Telephone: (800) 447.4091 • (828) 339.4352 or 339.4253  
 Address: 447 College Drive, Sylva, North Carolina 28779  
 Web page: www.southwesterncc.edu • E-mail Address: admissions@southwesterncc.edu

**STEPS TO ENROLL**

1. Application for Admission must be submitted in accordance with the admission policy.
  - To be considered for admission to degree, diploma, or selected certificate programs, official transcripts must be sent by the student’s high school and other institutions attended.
2. Placement Testing requirement must be met.
3. Attend New Student Orientation.
4. Log into mySCC and assigned web mail address.
5. Meet with an assigned advisor to register for classes.
6. Attend class on the first day.

**APPLICATION FOR ADMISSION**

**All Students—High School Graduates, GED Recipients, Transfers from other Institutions**  
All Applicants to the College are required to:

1. Submit a completed Application for Admission, written or online, to the Admissions Office. The online Application for Admission is located at www.southwesterncc.edu
  - Applicants must prove they are 18 years of age or a high school graduate.
2. High School Age Students (enrolled in high school or home school) submit a one-page application available through the College Access office.

All Applicants to Degree, Diploma, or Selected Certificate Programs are required to:

1. Submit an application for admission.
2. Submit an official transcript from a valid high school or a copy of GED scores to the Registrar’s Office.
  - High school transcript MUST include the type of diploma awarded and the date awarded. Official transcripts MUST have the official seal of the school and arrive at SCC, unopened, from the issuing schools or agencies.

3. Submit official transcripts from ALL postsecondary institutions attended to the Registrar's Office.
  - Institutions MUST be accredited by at least one of the "Regional Accrediting Agencies". Official transcripts MUST have the official seal of the institution and arrive at SCC, unopened, from the issuing institutions.
  - All transcripts from other institutions become the property of Southwestern Community College and cannot be returned or reissued.
4. **ALL transfer students, regardless of whether they are degree seeking, must submit official transcripts to certify eligibility to take courses with prerequisites.** All transcripts from other institutions become the property of Southwestern Community College and cannot be returned or reissued.

### APPLICATION TO SELECTIVE ADMISSIONS HEALTH SCIENCE PROGRAMS

Applicants to selective SCC Health Science programs are required to:

1. Submit all documents described in the section "Application for Admission to Degree, Diploma, or Selected Certificate Programs."
2. Applicants MUST meet the Placement Test requirements as described in the Testing section and complete all required developmental courses.
3. Applicants MUST meet all of the additional requirements outlined by the deadline indicated in the particular Health Science program description—see the appropriate program listing in this catalog.
4. Additional transcripts are not necessary UNLESS the applicant has taken coursework since the last submission of transcripts.
5. Applicants for more than one selective admission program must notify the Admissions Office by submitting a Change of Program/Application Update form.

#### Deadlines for Selective Admission Applications:

Health Program	Application Deadline	Beginning	HOAE Required
Emergency Medical Science	May 15	Fall 2013	No
Medical Assisting	April 1	Fall 2013	Yes
Medical Laboratory Technology	March 1	Fall 2013	No
Medical Sonography	March 15	Fall 2013	Yes
Nursing Associate Degree(RN)	January 31	Fall 2013	Yes
Phlebotomy	May 1	Fall 2013	No
Physical Therapist Assistant	April 15	Fall 2013	Yes
Radiography	March 1	Fall 2013	Yes
Respiratory Therapy	March 1	Fall 2013	Yes
Therapeutic Massage	May 15	Fall 2013	No
(see program descriptions for details)		(see Testing section)	
Applicants should meet with assigned advisor prior to deadline.			

**TESTING**

Applicants to all degree, diploma and selected certificate programs of study are required to demonstrate competence in the following five areas:

- Reading Comprehension
- Sentence Skills/Grammar
- Arithmetic
- Elementary Algebra
- Basic Computer Skills

Applicants can satisfy or meet each of the five competencies for initial college level placement as follows:

	SATISFIED BY			
	Accuplacer Placement Test	SAT	ACT	College Credit
<b>COMPETENCE AREAS</b>	<b>Minimum Score Required</b>	<b>Minimum Score Required</b>	<b>Minimum Score Required</b>	<b>100-level course ≥ “C” grade</b>
Reading Comprehension	CPT Score ≥ 80	CR or Writing ≥ 500	Reading ≥ 21	English course
Sentence Skills/Grammar	CPT Score ≥ 86	CR or Writing ≥ 500	English ≥ 21	English course
Arithmetic	CPT Score ≥ 55	Math ≥ 500	Math ≥ 21	Math course
Elementary Algebra	CPT Score ≥ 55 (see 1 below)	Math ≥ 500	Math ≥ 21	Algebra course
Basic Computer Skills	CPT Score ≥ 50%	Take CPT section	Take CPT section	Computer course

Exempt from Basic Computer Skills Test:

- Students with “College Prep” or “Tech Prep” high school diplomas awarded within six years from the date of intended enrollment are considered to have met this requirement.
- Students with college transfer credit of 100-level course with a grade of ≥ C are considered to have met this requirement.

Not Exempt from Basic Computer Skills Test:

- High School graduates with diplomas awarded more than six years prior to the date of intended enrollment.
- GED students and high school graduates with “General Prep” or “Occupational Prep” diplomas.

1. ACCUPLACER Placement Test

a) Taking the Test

- Free to all SCC applicants.
- Average test completion time is 1.5 to 2 hours.
- Schedule to take the test by contacting the Testing Office.
- A valid photo I.D. is required at the time of testing.
- Test Regulations—Calculators, notebooks, earphones, dictionaries and textbooks are not allowed in the testing room. The testing center will provide scratch paper and a pencil for test takers. All cell phones need to be turned off during testing. Talking to other students is not permitted.
- Distance Learning students (those who do not live in the Jackson, Macon and Swain County area) may contact the SCC Testing office for assistance in securing a test site near them.
- Test Study Guide—For more information on preparing for the ACCUPLACER (CPT), go online to: [www.southwesterncc.edu/admissn/testing.htm](http://www.southwesterncc.edu/admissn/testing.htm) and click on the SCC testing study guide and a sample test. Other Study Guides:
  - Study Guide (free): [www.collegeboard.com/student/testing/accuplacer](http://www.collegeboard.com/student/testing/accuplacer)
  - Sample Tests (free): [www.purplemath.com](http://www.purplemath.com), [www.testprepreview.com/accuplacer](http://www.testprepreview.com/accuplacer), [www.google.com](http://www.google.com) - search for “Accuplacer Practice Test” at no cost

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See next page for additional specific requirements and scores

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Contact the SCC Testing Office for details and test scheduling

## b) Test Results

- **Score Report:** Upon completion of the test, the student will receive a printed score report. The test administrator and your advisor will help you interpret the scores.
- **Time Limit on Use of Scores:** Test scores are considered valid for initial placement for a period of three years from the date the assessment was completed.
- **Score Interpretation:** For test scores that fall below the established minimums, the College requires Developmental Education courses to improve basic skills.
  - 1) **Reading & Sentence Skills**—All students except Early Childhood Education
    - A Reading score of  $\geq 80$  and Sentence Skills score of  $\geq 86$ , allows a student to take ENG 111.
    - A Reading score of  $\geq 80$  allows a student to take most introductory College Transfer courses.
    - Reading scores of  $< 80$  allows a student to take RED 090.
    - Sentence Skills scores of  $< 86$  requires a student to take ENG 090 and ENG 090A.
    - A Reading score of 70-79 and a Sentence Skills score of 76-85 permits a student to take ENG 095 (combines ENG 090 & RED 090).
  - 2) **Reading & Sentence Skills**—Early Childhood Education students only
    - A Reading score of  $\leq 56$  and a Sentence Skills score of  $\leq 65$  allows a student to take ENG 085.
    - A Reading score of 57-79 allows a student to take RED 090.
    - A Sentence Skills score of 66-85 allows a student to take ENG 090.
    - A Reading score of 70-79 and a Sentence Skills score of 76-85 allows a student to take ENG 095 (combines ENG 090 & RED 090).
  - 3) **Arithmetic and Elementary Algebra**—
    - An Arithmetic score of  $\geq 55$  and Elementary Algebra scores between 55-74, a student may take MAT 080, 110, 115, 121, or 140.
    - An Arithmetic score of  $\geq 55$  and Elementary Algebra scores of  $\geq 75$ , a student may take MAT 141, 151, 161, 162, or 171.
    - Math courses above 171 require either higher scores or successful completion of the required prerequisite course or courses. The college may require additional math testing prior to being permitted to take upper level math courses.
      - An Arithmetic score of  $< 55$  requires a student to take MAT 060.
      - An Elementary Algebra score of  $< 55$  requires a student to take MAT 070.
  - 4) **Basic Computer Skills**—
    - A Basic Computer Skills score of  $\geq 50\%$  is required to meet this competency.
    - A Basic Computer Skills score of  $< 50\%$  requires a student to take CIS 070.
    - Contact the Testing office for details.

## c) Retest Policy:

- If a student places into a Developmental Education course and feels that the placement test did not adequately reflect skill level, the student may request a retest.
- A student may retest no more than one time per academic year.
- If after the retest, the student continues to feel that the test did not adequately reflect skill level and places in the borderline range of 47-50 percentile in Sentence Skills or Reading Comprehension, the student may be permitted to demonstrate proficiency by taking an alternative assessment under the direction of the Dean of Arts & Sciences.

## d) Other Placement Tests

- The college accepts ASSET and COMPASS scores. Scores must be sent from the institution administering the test. Test scores are considered valued for initial placement for a period of three years from the date of the assessment.
- Contact the SCC Testing Office for details.

## 2. SAT

- a) Scores: SAT scores of  $\geq 500$  in Verbal (Critical Reading) OR  $\geq 500$  in Writing AND  $\geq 500$  in Math are required for tests taken after April 1, 1995.
- b) For test scores that fall below the established minimums, the College requires Developmental Education courses to improve basic skills or a student may elect to take the appropriate accuplacer test.
- c) The college may require additional math testing prior to being permitted to take upper level math courses. A SAT Math score of  $\geq 600$  is required to be considered eligible to register for MAT courses at or above 175.
- d) Basic Computer Skills must be met by taking the Basic Computer Skills Test module of the CPT.

Exempt from Basic Computer Skills Test:

- Students with “College Prep” or “Tech Prep” high school diplomas awarded within six years from the date of intended enrollment are considered to have met this requirement.
- Students with college transfer credit of  $\geq 100$ -level course with a grade of  $\geq C$  are considered to have met this requirement.

Not Exempt from Basic Computer Skills Test:

- High School graduates with diplomas awarded more than six years prior to the date of intended enrollment.
- GED students and high school graduates with “General Prep” or “Occupational Prep” diplomas.

## 3. ACT

- a) Scores: ACT scores of  $\geq 21$  in Reading,  $\geq 21$  in English AND  $\geq 21$  in Math are required for tests taken after April 1, 1995. (The composite score is not accepted.)
- b) For test scores that fall below the established minimums, the College requires Developmental Education courses to improve basic skills or a student may elect to take the appropriate accuplacer test.
- c) Basic Computer Skills must be met by taking the Basic Computer Skills Test module of the CPT.

Exempt from Basic Computer Skills Test:

- Students with “College Prep” or “Tech Prep” high school diplomas awarded within six years from the date of intended enrollment are considered to have met this requirement.
- Students with college transfer credit of  $\geq 100$ -level course with a grade of  $\geq C$  are considered to have met this requirement.

Not Exempt from Basic Computer Skills Test:

- High School graduates with diplomas awarded more than six years prior to the date of intended enrollment.
- GED students and high school graduates with “General Prep” or “Occupational Prep” diplomas.

## 4. College Transfer Credit

- a) Submit official transcripts demonstrating successful completion of college-level algebra, English and computer courses at a regionally accredited college or university.
- b) Courses must be at the 100 level or higher, must have a grade of “C” or higher, and must have been completed within the past 10 years. There is no time limit for courses taken by a student at an institution where a degree was received.
- c) Courses classified as developmental or remedial will not transfer to SCC but may be used to meet the Placement Test requirements.
- d) Official transcripts must be received from the issuing institutions before transfer credit is awarded.

## 5. HOAE – Health Occupations Aptitude Examination

- a) Applicants seeking admission into the following Selective Admission Health Science programs must take the Health Occupations Aptitude Examination: Medical



Assisting, Medical Sonography, Nursing Associate Degree, Physical Therapist Assistant, Radiography and Respiratory Therapy.

- b) The HOAE measures abilities, skills, knowledge, and attitudes important for successful performance in Health Science programs. The resulting scores are one component in the highly competitive health science selection process. A specialized internal scoring system is utilized to accumulate points applied to the selection process. The examination consists of five parts: academic aptitude, spelling, reading comprehension, natural science and vocational adjustment.
- c) A \$20 fee is charged for test administration and scoring. Applicants must have signed permission from their advisor prior to scheduling and paying for the test. Information about the test and a test specimen are available from the students' health program advisor, the Testing Office or online at [www.southwesterncc.edu/admissn/testing.htm](http://www.southwesterncc.edu/admissn/testing.htm).
- d) Applicants may test once per academic year. Requests for retest must be approved by the program advisor.

### How to Contact the Testing Office

Location: Jackson Campus, Balsam Center • Hours: By Appointment

Telephone: (800) 447.4091 • (828) 339.4332 or 4352 • Address: 447 College Drive, Sylva, North Carolina 28779 • Web page: [www.southwesterncc.edu](http://www.southwesterncc.edu)

### ORIENTATION

All students enrolling for the first time at Southwestern Community College are required to participate in an Orientation Program. The program is designed to acquaint new students with the important policies, resources and services available at Southwestern and provide valuable information needed to facilitate student academic success.

Prior to the start of fall and spring semesters, live orientation sessions are conducted at the Jackson Campus. Students are not permitted to register for the next semester of study until they have completed the Orientation Program.

### mySCC/WEB MAIL/INFORMATION TECHNOLOGY

Every student accepted into a curriculum program is automatically assigned an SCC account that will allow them to access mySCC, email and WebAdvisor. In addition, you will use this account to access Blackboard and other services once your classes have started.

The SCC account will be your official e-mail account when contacting anyone here at the College and will be used by the College and your instructors to correspond with you.

If you experience any problems with your account please contact the helpdesk at [workorder@southwesterncc.edu](mailto:workorder@southwesterncc.edu) or call (828) 339.4409 or (800) 447.4091, ext. 4409.

### ATTENDANCE REQUIREMENTS

Students are expected to attend and be on time for all scheduled classes and labs. Students should refer to the course syllabus for individual course attendance requirements. At the discretion of instructors, students may make up work missed. When students must be absent, it is vital that they remain in contact with their instructors.

Any student who has not attended at least one face-to-face class meeting or completed one assignment/activity for an online class by the 10 percent date of the class will be reported by the instructor as "never attended." A student who has never attended a class by the 10 percent date is no longer enrolled in the class and will not earn credit or receive a tuition refund for the course.

Under extenuating circumstances, a student who has never attended may follow the late registration procedure to petition for reinstatement in the class and earn course credit. The student should notify the instructor of the extenuating circumstances prior to the 10 percent date of the class and provide compelling documentation to support the request for reinstatement. Reinstatement will only be considered when the absence was due to unforeseeable and uncontrollable circumstances.

Students reported as never attended may request to have their status changed to “audit.”

A student may have two excused absences each academic year for religious observances. To qualify for this observance, the student must make a written request to the instructor five (5) days prior to the absence. Any test or other work missed due to an excused absence for religious observance may be made up without penalty.

### **COLLEGE ACCESS**

College Access, a partnership between SCC and area public schools, supports a collection of programs, services and resources designed to enhance education and improve access to college for area young people. College Access is comprised of integrated initiatives that together present a continuum of services responsive to the community’s needs.

### **Career & College Promise**

Beginning January 1, 2012, new legislation combined Learn & Earn Online, Dual and Concurrent Enrollment as well as Huskins- ACE programs into “Career & College Pathways.” Qualified juniors and seniors may begin their two or four year college work, tuition free, while they are in high school. These pathways allow highly motivated students to get a head start on their workplace and college preparation. For more information about these opportunities, please visit our website: [www.southwesterncc.edu](http://www.southwesterncc.edu), Academics, Career & College Promise or contact Cindy Thompson, College Access Coordinator at 828.339-4610 or [cindy\\_thompson@southwesterncc.edu](mailto:cindy_thompson@southwesterncc.edu).

### **College Tech Prep (Articulated Credit from High School to Community College)**

The College Tech Prep program allows students, upon graduation from high school, to receive advanced placement or college credit for successfully completing selected high school courses. To earn articulated credit, students must score a minimum of 93% on the standardized CTE post assessment; have a minimum grade of “B” in the high school course; and enroll in SCC within two years of high school graduation.

### **Early College High School**

An Early College High School is a small, autonomous high school usually located on a campus of Southwestern Community College. Early College High Schools are a part of the NC New Schools project and provide students, who enroll in the ninth grade, the opportunity to earn both their high school diploma and an associate’s degree (or two years of college credit) within their five years of enrollment in Early College. The Early College High School provides a safe, caring school where each child is well-known, intellectually challenged, and celebrated by every adult in the building. It is an innovative educational environment accepting students of diverse ability levels through an application process conducted each spring. For more information regarding Early College opportunities, please contact your nearest Early College directly: Blue Ridge Early College (828) 743.2646, ext. 268; Jackson County Early College (828) 339.4499; or Macon Early College (828) 306.7006.

### **New Century Scholars**

New Century Scholars is a locally-funded initiative that provides guaranteed last-dollar tuition support to attend Southwestern Community College with the option of continuing to WCU. Rising seventh graders in Jackson, Macon and Swain counties are selected by public school personnel. Students take part in college preparatory activities and enrichment opportunities throughout middle and high school that prepare them to succeed in college. Scholars are given additional support throughout their college experiences and assistance with transitions to SCC and WCU.

### Upward Bound

The Upward Bound program helps first-generation and income eligible high school students in Swain, Macon and Jackson counties and the Qualla Boundary develop the skills and motivation needed to succeed in high school and college. Students take part in weekly tutoring, academic advising and support, college tours, service learning opportunities, monthly campus experiences, outdoor adventures, cultural enrichment activities and a summer institute experience.

For more information about these programs/services for high school students, visit our website at: [www.southwesterncc.edu](http://www.southwesterncc.edu).

## OTHER ENROLLMENT POLICIES

### Gainful Employment Compliance Information

For more information about SCC's graduation rates, the median debt of students who completed a designated program, and other important information, please visit [www.southwesterncc.edu](http://www.southwesterncc.edu), then click on the specific program's webpage for the latest information.

### Home Schooled Students

Students home schooled will be considered for admission on the same basis as NC public school students provided that:

1. Evidence that the Home School is registered with the appropriate state agency.
2. A transcript is provided that includes:
  - Name of the Home School and address
  - Name of the principal
  - Name of the student
  - Student's social security number and birth date
  - Curriculum and courses taken each year with grades and a grade-point average
  - Cumulative grade-point average for total progress
  - Standardized performance test scores
  - Diploma awarded with graduation date

### Seriously Under-Prepared Students

Any student who takes the College Board's ACCUPLACER (CPT) and scores below the tenth percentile level on one or more of the basic reading, writing or elementary math sections will be limited to enrolling in specific programs recommended by their assigned advisor. Any program recommended by the advisor is designed to assist in the student's progress toward a career objective.

### Residency for Tuition Determination

To qualify for in-state tuition, students must have maintained domicile in North Carolina for at least 12 months immediately prior to enrollment. Individuals must establish that their presence in the state during the designated 12-month period was for the purpose of maintaining a bona-fide domicile and not to simply establish temporary residence. Special situations involving marriage to a North Carolina resident or out-of-state military assignment should be brought to the attention of the Registrar.

Regulations concerning classification for tuition purposes are set forth in "The State Residence Classification Manual." A copy of the manual is available for review in Student Services, Office of the Registrar.

Application for residency must be submitted prior to registration and payment of fees of the semester in which the student wishes to have residency status changed to in-state. If the application is received after the registration day for the semester, the application, if approved, will be effective for the next semester.

If a student's residency classification changes, it is his obligation to apply for reclassification with the Registrar. A student who provides false residency information or knowingly withholds residency information shall be deemed to have submitted a fraudulent application. A student making a fraudulent application is subject to reclassification and, if appropriate, payment of the difference between non-resident and resident tuition for the enrolled semester(s) intervening between the fraudulent application and its discovery.

If a student is not satisfied with his initial residency classification or reclassification, he may appeal to the Dean of Student Services. After review by the Dean, the student may appeal to the Vice President for Instruction and Student Services. After review by the VP, the student may file notice of appeal to the State Residency Committee through the Dean of Student Services.

**NC Senior Citizens**

Tuition shall be waived for up to six credit hours per academic semester for senior citizens age 65 or older who are qualified as legal residents of North Carolina. Applicable fees will be charged. If an eligible senior citizen enrolls in more than six credit hours, he/she shall be charged tuition and fees above six credit hours.

**International Students**

Southwestern Community College is authorized under federal law to enroll nonimmigrant alien students with F-1 visas. Students on F-1 visa status must pay out-of-state tuition and cannot be considered a resident of the state. Proficiency in the English language and satisfactory academic records are important factors in the admission decision for all applicants from outside the United States. International students must have graduated from a secondary school that is equivalent to secondary schools in the United States.

Holders of B, C, D, F, H, J and M visas may not be considered residents for tuition purposes, and their dependent relatives may not be eligible for a tuition rate less than the out-of-state rate. Alien Registration Card holders are admitted in the same manner as U.S. citizens.

The college cannot provide federal financial aid to most international students; therefore, students must have sufficient funds to cover all living expenses, tuition and fees for the duration of the student's course of study. A notarized financial resource statement is required of all international applicants. Student housing is not available on campus, and international students are expected to make their own housing arrangements. International students must be enrolled full time for each semester.

An official Test of English as a Foreign Language (TOEFL) score report is required of all international applicants, at the student's expense, except those from countries where English is the native language or unless the applicant is a transfer student from another accredited United States institution with English transfer credit. The minimum acceptable TOEFL score is 500 for the paper-based test, 173 for the computer-based test and 61 for the Internet-based test. A certified copy of the international student's original educational record, to include all previous academic experiences, is required of all degree, diploma or certificate-seeking students. If the original record is written in a language other than English, then a certified copy of an English translation and evaluation by an approved outside source is required at the student's expense. A record of certain immunizations may also be required.

Application packets for international student enrollment are available from the Registrar's Office.

**Undocumented Alien Students**

Undocumented aliens are eligible for admission. Special rules apply. Contact the Admissions Office for the most up-to-date information regarding admission.

**Transcript Evaluations**

Official transcripts from valid high schools will be processed by the Registrar's Office and evaluated if the student has AP scores and VoCATS scores along with corresponding coursework. The information will be noted in the student's SCC record. Transcripts from postsecondary institutions will be processed and evaluated by the Registrar's Office. See the section "Transfer of Earned Credit".

**Readmission**

A student who has NOT been enrolled at the College for the previous two semesters must complete an Application for Admission and update residency classification prior to registration. Students applying for readmission will be required to meet the curriculum requirements in effect at the time of readmission, unless waived by the Vice President for Instruction and Student Services. The college reserves the right to refuse readmission to a former student who has unpaid financial obligations at the College or who has not complied with previous disciplinary requirements.

**REGISTRATION****Priority Registration**

Priority registration dates are published in the academic calendar and procedures are printed in the student handbook. All currently enrolled students are strongly encouraged to register during early registration to get the courses they need to progress in their programs.

**Final Registration Day**

Final registration is held each semester on the day published in the academic calendar. Students not enrolled for two or more consecutive semesters must complete an Application for Admission before meeting with their assigned academic advisors to initiate the registration process.

**Late Registration and Drop/Add**

Late registration occurs during the five day drop/add period that begins with the first day of classes for the semester or term. Registrations and drops or adds after the end of the late registration and drop/add period must be approved by the appropriate dean.

A \$5 late registration fee will be charged to returning students enrolled in full-time curriculum programs who register after registration day, except those students who are enrolled in open laboratory programs.

**Transfer of Earned Credit**

Applicants to degree, diploma or certificate programs who want credit for coursework completed at other post-secondary institutions are responsible for having an official transcript from each institution submitted directly to the Registrar's Office. Courses with a grade of "C" or higher may be accepted if the courses are applicable to the program selected at this college and were earned at a regionally accredited college, university, community college or technical institute.

Credits transferred to Southwestern Community College from another institution will be recognized as hours toward the appropriate degree, diploma or certificate but will not be calculated toward the cumulative grade point average (GPA) for that program. All official transcripts submitted to the Registrar's Office prior to a student's enrollment will be evaluated for transfer credit before registration, if possible, and no later than the end of the first semester of enrollment. All transcripts from other institutions become the property of Southwestern Community College and can not be returned or reissued.

Transfer of "Credit by Exam" will not exceed more than one-half of degree requirements and must be approved by the dean or coordinator of the appropriate program.

**Previously Earned Credit**

Coursework completed in technical areas more than six years prior to beginning of a degree, diploma, or certificate may be credited only with the approval of the respective dean. General education credit ten years old or older may be subject to dean and/or departmental review. In some cases, credit may be awarded if the student passes a competency test. The age of course work is reviewed for both previously earned credit at SCC and course work being transferred into the College.

**How to Contact the Registrar's Office**

Location: Jackson Campus, Balsam Center

Telephone: (800) 447.4091 • (828) 339.4219

Address: 447 College Drive, Sylva, North Carolina 28779

Web page: [www.southwesterncc.edu/registrar/index.htm](http://www.southwesterncc.edu/registrar/index.htm)

## OTHER ENROLLMENT PROCEDURES

### Change of Curriculum

Students who wish to change to a different academic program or add a second major should discuss the proposed change with their academic advisors and submit a “Change of Program & Application Update” form to the Registrar’s Office.

### Change of Name/Address

If a student’s name or address changes while enrolled, the student should complete a “Change of Name/Address Form”, available in Student Services, and return it to the Admission’s Office. The student must provide a Social Security Card as proof of the name change.

### Transfer Agreements

Parallel coursework completed at Southwestern Community College will transfer into other institutions in the NC Community College System and to most senior institutions in the region. The college has formal transfer agreements and specific curriculum articulation agreements with many senior institutions in and beyond western North Carolina. For a complete list of institutions and transfer agreements, go to the following page on the College’s website: <http://www.southwesterncc.edu/content/transfer-agreements-0>

Coursework in the College Transfer Associate in Arts curriculum will satisfy general education and liberal arts requirements at all NC community colleges, NC public universities and most NC private universities and colleges, as well as most out-of-state four-year colleges and universities. The North Carolina Comprehensive Articulation Agreement among the postsecondary institutions lists all courses designated for transfer. For a complete list, go to the Associate in Arts – College Transfer section of this catalog. All courses in this section are approved for transfer under the agreement. The course descriptions in the rear of the catalog carry the transfer designation.

### Veterans

Recipients of veterans’ benefits must submit official transcripts of all postsecondary coursework attempted before they can receive VA benefits. They are also urged to submit official transcripts of any educational work completed through the armed services. **Veterans are not eligible to receive VA benefits until all postsecondary transcripts are submitted.** A VA application must be submitted by the student before a student can be certified for benefits by the Registrar. For more details, contact the Office of the Registrar located in Student Services, Balsam Center.

**Credit for AP & CLEP**

Southwestern Community College awards Advanced Placement credit as follows:

AP EXAMINATION	SCORE REQUIRED	HOURS GRANTED	SCC COURSE(S) SATISFIED
American History	3	6	HIS 131, 132
Art 3-D Design	3	3	ART 122
Biology	3	8	BIO 111, 112
Calculus AB	3	4	MAT 271
Calculus BC	3	8	MAT 271, 272
Chemistry	3	8	CHM 151, 152
Computer Science A	3	3	CIS 115
Computer Science AB	3	6	CIS 115
English Lang/Comp	3	3	ENG 111
English Lang/Comp	4 or above	6	ENG 111, 113
English Lit/Comp	3	3	ENG 111
English Lit/Comp	4 or above	6	ENG 111, 113
European History	3	6	HIS 121, 122
French Language	3	6	FRE 112, 211
	4	6	FRE 211, 212
	5	6	FRE 212
German Language	3	6	GER 112, 211
	4	6	GER 211, 212
	5	6	GER 212
US Government & Politics	3	3	POL 120
Comparative Gov. & Politics	3	3	POL 230
History of Art	3	6	ART 114, 115
Macroeconomics	3	3	ECO 252
Microeconomics	3	3	ECO 251
Physics B	3	8	PHY 151, 152
Physics C	3	4	PHY 251
Physics C	4 or above	8	PHY 251, 252
Psychology	4 or above	3	PSY 150
Spanish Language	3	6	SPA 112, 211
	4	6	SPA 211, 212
	5	6	SPA 212
Statistics	3	3	MAT 151
World History	3	6	HIS 111, 112

This list of Advanced Placement credit will be amended periodically as new courses are added to the Southwestern Community College curriculum and as new Advanced Placement examinations are developed.

College Level Examination Program credit will be awarded as follows:

EXAM	SCORE	HOURS CREDIT	SCC COURSE CREDIT
Freshman College Comp	49	3	ENG 111
College Algebra	51	4	MAT 171/171A

\* A satisfactory writing assignment is also required to receive credit for ENG 111

The list of College Level Examination Program credit will be amended periodically as new courses are added to the Southwestern Community College curriculum and as College Level Examination Program examinations are developed or revised.

# ACADEMIC INFORMATION

- Academic Advising
- Attendance Requirements
- Change of Schedule
- Commencement Application
- Degrees
- Distance Learning
- Grades
- Honors/Academic Organizations
- Licensing of Graduates
- Policies/Procedures
- Weather Policy

## SUCCESS STORY

**Creating Success**  
 NC Community Colleges  
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### Darrin Bark

SCC Graduate  
 OICA, Fine Arts Program



At the 2012 NC Excellence in Community College Awards Darrin Bark represented not only Southwestern Community College but the Oconaluftee Institute for Cultural Arts.

Darrin, who is from the Paintown community of Cherokee, recently graduated with his Associate in Fine Arts degree from OICA.

“OICA has given me the insight of how important the arts are to a culture,” said Darrin. “One can determine how a society flourishes by the art it produces. Jeff Marley, the program coordinator, has done an outstanding job, along with the rest of the staff. I see OICA as a rare gem. This school is history in the making, and I am so honored for the opportunity to be a part of it.”

An enrolled member of the Eastern Band, Darrin said he took classes at OICA “because I wanted to be a part of an exciting new school, which promotes Native American culture.” He said OICA has given him and other students “the platform to showcase our talents...and it’s given me an insightful view of our culture and the importance it has placed in history.”



## ACADEMIC ADVISING

Each student will be assigned an academic advisor as part of the application process. Advisors are staff and faculty members who guide students in making wise selections of course offerings with careful attention to institution policies, procedures and degree requirements.

In addition, academic advisors offer students opportunities to enhance their education by making them aware of the various internal and external resources available to them throughout the College and community.

Academic advisors also play an important role in the educational progress of their advisees by continually monitoring and evaluating their progression, as well as helping them to clarify their educational goals and values.

Academic Advising at SCC follows the developmental education success model. Advisors are committed to student success and so academic advising for many students may begin at the developmental level. In cases where students score below the tenth percent on the College placement test in reading, writing or arithmetic, an intensive ABE academic foundation program will be advised before developmental or curriculum classes will be assigned.

Regardless of class placement, students are encouraged to have frequent contacts with their advisor while they attend SCC.

## ATTENDANCE REQUIREMENTS

Students are expected to attend and be on time for all scheduled classes and labs. Students should refer to the course syllabus for individual course attendance requirements. At the discretion of instructors, students may make up work missed. When students must be absent, it is vital that they remain in contact with their instructors.

Any student who has not attended at least one face-to-face class meeting or completed one assignment/activity for an online class by the 10 percent date of the class will be reported by the instructor as “never attended.” A student who has never attended a class by the 10 percent date is no longer enrolled in the class and will not earn credit or receive a tuition refund for the course.

Under extenuating circumstances, a student who has never attended may follow the late registration procedure to petition for reinstatement in the class and earn course credit. The student should notify the instructor of the extenuating circumstances prior to the 10 percent date of the class and provide compelling documentation to support the request for reinstatement. Reinstatement will only be considered when the absence was due to unforeseeable and uncontrollable circumstances.

Students reported as never attended may request to have their status changed to “audit.”

## CHANGE OF SCHEDULE

### Add/Drop

The add/drop period is defined in the academic calendar. Schedule changes are permitted during this time without grade penalty and are made on the “Add/Drop/Withdrawal Form.” Courses dropped after this period will result in a grade of “W.”

### Withdrawal Procedures

To withdraw from a course(s) or the College, a student should contact his advisor and initiate the “Add/Drop/Withdrawal Form”. This form must be signed by the advisor and the appropriate instructor(s) and returned to the Registrar’s Office. If a student withdraws by the official withdrawal date for the semester (published in the academic calendar), the grade received will be a “W.”

If a student seeks to withdraw from a course(s) after the official withdrawal date, this may be granted under extenuating circumstances such as serious illness or job transfer and will be considered on an individual basis by the instructor. It is the student's responsibility to provide compelling documentation for this request and to attach the documentation to the withdrawal form. The withdrawal form requires the signature of the advisor, appropriate instructor(s), and the dean and then is processed in the Registrar's Office.

It is the responsibility of the student to initiate the withdrawal process. If a student stops attending class and does not complete an official withdrawal, the student's final grade will be an "F." An exception will be made for Developmental Education coursework.

The "W" will not influence the quality point ratio for the semester. However, withdrawing from courses could affect a student's eligibility for financial aid. Students who receive financial aid should always consult the Financial Aid Officer before withdrawing from a course.

### COMMENCEMENT APPLICATION

At the end of each academic term, a commencement ceremony is held for students to celebrate their achievement of completing degree, diploma, or certificate requirements for programs approved by the North Carolina State Board of Community Colleges. Students should apply between the first and 50th class day of the semester in which they expect to complete their program (published in the Academic Calendar). Applications received after the announced deadline will be reviewed for special consideration.

All applicants must have completed all course requirements by the end of the semester in which they plan to participate in commencement. If the student is qualified, the Registrar's Office will order credentials and mail to the student at the address indicated on the commencement application. Students who apply and do not qualify must reapply after deficiencies are completed. Credentials will not be ordered and held for students to complete requirements in a subsequent semester.

A student must maintain an overall average of C (2.00 GPA) to graduate. Some health science programs have additional graduation requirements as defined by those programs.

In order to be awarded a degree, diploma and/or certificate, the Registrar's Office must receive an Application for Commencement. This is the only way our office is notified that you are ready to complete your program. Students Application steps are as follows:

**1. Apply:**

Meet with your advisor to complete the Application for Commencement. Submit the application to the Registrar's Office for final approval by the announced deadline. Check the Academic Calendar for term deadlines.

**2. Clear Debts:**

- a. Students must pay all debts owed to the College at the Business Office or Library.
- b. Complete Financial Aid Exit Counseling for student loans at [www.studentloans.gov](http://www.studentloans.gov) and click on Exit Counseling under Tools and Resources. Contact the Financial Aid Office at [financialaid@southwesterncc.edu](mailto:financialaid@southwesterncc.edu) for further information. If you plan to re-enroll, please notify the financial aid office so they can notify the Registrar's Office to release your diploma hold.

**3. Order:**

If you plan to participate in the commencement ceremony, you will need to contact the bookstore to see if they have a graduation kit with your size. You may not need to order online.

If the bookstore does not have your size, you will need to visit the Herff-Jones website ([herffjones.com/college/southwesterncc](http://herffjones.com/college/southwesterncc)) to order your cap, gown & tassel. You do not pay for the kit online, only place your order. Herff-Jones will ship your order to the bookstore, where you may pick up and pay after the announced date. Students will receive an email a few months into the term with website activation details. It does not remain active at all times.

This is the only fee associated with graduation (approximately \$45). From this website you may also order announcements and class rings (at an additional cost). If you have any questions, please contact the bookstore at (828) 339.4222.

If you do not plan to participate in the ceremony, you may visit the Registrar's Office during the week of graduation to pick up a diploma cover.

**4. Celebrate:**

Attend the Commencement Ceremony in the Norman K. Myers Auditorium of the Balsam Center. This building is located on the Jackson Campus in Sylva. Information about the ceremony dos and don'ts are found at [www.southwesterncc.edu/content/commencement-faqs](http://www.southwesterncc.edu/content/commencement-faqs). The Graduate Rehearsal is always held the preceding business day before the ceremony in the auditorium at 3:00 p.m., with a reception to follow. Refer to the Academic Calendar for dates and times, as well as informational emails sent by the Registrar's Office.

**5. Wait—Be Patient:**

Diplomas will be mailed within 6 – 8 weeks following graduation. The Registrar's Office will email student accounts, and will post an announcement on our website once they have been mailed. Refer to the website for the status of diplomas.

Should you need proof of graduation for an employer or another school before you receive your diploma, we must receive a written transcript request. Transcript release forms are located in the Registrar's Office or on our website at <http://www.southwesterncc.edu/advisor/forms/transcript-release.pdf>. These can be submitted at any time for the end of term, or after graduation.

**Need Special Assistance?**

**Graduation is a physical activity. Due to injuries or disabilities sometimes it is a challenge. If you will be needing special assistance to walk into the auditorium, climb the stairs to the stage, walk across the stage, descend the stairs, hear or see the ceremony, or any other activity related to graduation—please contact the Disability Services Coordinator at (828) 339.4229.**

## DEGREES

### Associate Degrees

Academic programs for which an Associate of Applied Science degree is awarded require the successful completion of 64 - 76 semester hour credits and are designed to provide entry-level employment training. An Associate of Arts degree requires the successful completion of 64 semester hour credits and is designed to facilitate transfer to one of the 16 public universities in North Carolina.

### Diploma

A diploma is awarded after successful completion of 36 - 48 semester hours credits in an approved diploma-granting program. For a full-time student, it generally takes three semesters to finish a typical diploma program.

### Certificate

A certificate is awarded after successful completion of 12 -18 semester hour credits in a particular certificate-granting program. Certificate programs are designed for specific skill development.

### Completion of General Core Requirements

College transfer students who choose to transfer after completion of the 44-hour general education core must contact their advisor, who will then notify the Registrar's office if the

student has met the core requirements. Upon certification of completion, a notation appears on the student's transcript.

### **Minimum Course Work Requirements (Credit in Residence)**

In order for an Associate's Degree to be awarded, a minimum of 25 percent of required major courses in the degree program must be completed at Southwestern Community College. Certain diploma and certificate programs require less credit to meet residency requirements. These programs will be determined on an individual basis by the Vice President for Instruction and Student Services.

### **Multiple Degrees/Diplomas/Certificates**

A student may pursue multiple degrees, diplomas, and certificates concurrently or consecutively. Courses which apply appropriately to more than one degree, diploma or certificate may be counted toward the completion of each credential, but the specific requirements of each must be met.

## **DISTANCE LEARNING**

### **Opportunities to Earn College Credit via Distance Learning**

Distance education is most commonly characterized as teaching and learning that takes place between students and teachers who are in different geographical locations. Southwestern Community College (SCC) offers several modes of delivery for distance education courses: Telecourse, Web-based courses, TeleWeb and Community Link - Interactive Television (ITV).

Students enrolling in distance learning courses pay regular tuition and fees, have access to all student services, study under the College's rules and regulations and receive academic credit. While allowing for flexibility in course scheduling, distance learning often requires less time on campus.

Successful distance learners are highly motivated, self-disciplined individuals, who are confident in their academic abilities. They have access to the Internet (SCC Computer labs are also available to students) and are comfortable with conventional Web technologies such as e-mail, word processing, browsers, and more. Even when working at a distance, students are expected to be actively engaged in the learning environment.

During the spring and fall semesters, two methods of Blackboard training are available to students: Jackson Campus-based hands-on training and self-pace online training. While distance learning students are not expected to be computer experts, they should feel comfortable when working with Web technologies. Students needing to improve their computer skills should consider enrolling in an introductory computer course.

### **Web-centered (WC)**

- Instruction will be delivered using your computer over the World Wide Web.
- A web-centered course is actively led and monitored by the instructor via the Internet.
- Because of the interactive nature of a web-centered course, access to a computer with Internet capability and active student participation are requirements for satisfactory course completion.
- Web-centered courses require no in-class lecture time.

### **Hybrid (HY)**

- A hybrid course is one in which a substantial amount of the course requirements will be completed online via the class website and e-mail.
- Students may be required to come to campus on designated dates and times. These dates will be communicated to the student by the instructor.

**Web-enhanced**

- These courses use websites to enhance traditional face-to-face classes.
- While most of the instruction is accomplished in the classroom, the web enhancement allows instructors and students to extend their discussions and exchange information throughout the week.
- When appropriate for the course content and goals, a reduction of face-to-face class time may be permitted at the discretion of the instructor.
- It is most convenient for students if they have a working computer with Internet access at home, but this is not required. Many students choose to work on their web-enhanced coursework on campus in open computer labs or the library.

**Teleweb (TW)**

Teleweb course is a telecourse with a web-enhancement. Students enrolled in a teleweb course work independently, view televised programs and read printed materials at home with guidance from course instructors who use a variety of communication tools and instructional techniques. Lecture materials and course assignments may be accessed over the Internet. Additional materials (which may include professionally produced telecourses, or video materials produced “in-house” by the instructor and college media department) may be provided to the student by UNC-TV, local educational cable access, or videocassette. If students are unable to view the regularly scheduled telecourse broadcasts, SCC may provide a complete set of videotapes that can be used throughout the semester and returned to the College at the end of the term. Students may be required to report to the campus for tests and/or review sessions as determined by the instructor.

**Community Link – Interactive Television (ITV)**

Community Link - Interactive Television (ITV) is an interactive television network that links 12 educational sites in western North Carolina through fiber-optic cable and broadband T1. Community Link provides fully interactive audio and video communication in real time using video cameras, monitors and microphones. The benefits of Community link include increased course offerings while reducing drive time for students and instructors. Though Community Link is primarily used for course offerings, community groups and organizations may also use the network. Community Link sites include: SCC Jackson Campus, Cherokee, Swain and Macon County Centers, Smoky Mountain High School, Cherokee High School, Swain County High School, Blue Ridge School, Highlands School and Nantahala School.

**Auditing Courses**

Students who wish to audit a course must register through the regular registration procedures. Tuition and fees for auditing are the same as the cost of courses taken for credit. Audits are reported on grade reports and transcripts as “AU” and do not affect earned credits or influence the grade point average for the semester. However, audited courses do not count as successful completions for financial aid purposes. Therefore, students who receive financial aid should consult the financial aid officer before electing to audit a course.

To audit a course, a student should state his intent to audit no later than the first week of the course. An “AU” will be entered as the student’s grade for that course. A student may not switch from a credit to an audit status, or from an audit to a credit status after the add/drop period. However, in consultation with the student, an instructor may switch student status from a credit to an audit through the withdrawal period. This is done utilizing add/drop procedures.

**Cooperative Education**

In keeping with its policy of offering new and enriching opportunities for students, the College awards academic credit for cooperative work experience in many of its curricula. Cooperative Education (Co-op) is an educational program of practical, supervised, paid work experience that is directly related to the student's curriculum. The on-the-job training is a meaningful way for students to learn, to gain valuable work experience, to make educated career choices and to earn money while going to college. Interested students should contact their program advisor. Students are expected to have accident/medical insurance.

**Course Credit by Examination**

Credit by examination is offered to those students who, because of their demonstrated abilities, are qualified to accelerate their studies. To obtain credit, a student may take a proficiency examination in certain subjects when the student believes he already has mastery of the course material. Permission for such an examination must be obtained from the appropriate dean. The student must register for the course and pay tuition and fees. The examination may be written, oral, performance or all of these. Students failing such an examination may not request a second examination until evidence of further study in the subject is presented. The decision of the examining instructor is final.

**Grades in Developmental Courses**

Grades in all courses below the 100 level should be one of the following: A, B, C, CS or W and will not count as hours attempted or hours earned for the purpose of calculating a Grade Point Average (GPA).

Exception: Courses below the 100 level are counted as hours attempted for financial aid purposes.

**Student Grade Appeal**

The grade appeal process applies only to final course grades. In the event a student appeals a grade that prevents progression in a program, the student will be allowed to enroll and attend the following semester pending the outcome of the appeal. If the grade is upheld, the student will be withdrawn and refunded the tuition.

1. Student must appeal the grade to the instructor of record within the following semester. If not resolved;
2. Student may then appeal the grade to the appropriate dean. If not resolved;
3. (Final Step) Student may then appeal the grade to the Vice President for Instruction and Student Services. The decision of the vice president is final.

## SUCCESS STORY

**CreatingSuccess**  
NC Community Colleges  
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## Ken Rhoades

Supervisor, Health Information  
Technology Department  
Thomasville Medical Center



Ken Rhoades of Franklin, a 2011 Health Information Technology graduate, said Southwestern Community College (SCC) “didn’t just prepare me for a 40-hour job. They prepared me to be successful in my career.”

At SCC, Ken said he learned “how to be a professional, what workforce quality and ethics mean, how to care about the people you work with and how to take my life to the next level.”

The focus at SCC is on much more than textbook learning, according to Ken. “Our hands-on clinicals prepared me for the real world,” he said.

Just months after graduation Ken was hired at Thomasville Medical Center as supervisor of the health information technology department.

**GRADES****Grading System**

Official grades are available online at the end of each semester. The college does not mail grades to students. Students enrolled in curriculum courses will be graded by the letter grade system and assigned a grade point average (GPA) for each semester. Instructors inform students about their specific grading scales. The college does not have a uniform grading scale.

The GPA is determined by dividing the total number of quality points by the number of credit hours attempted. A GPA of 2.00 is required for graduation. Transfer credits are not included in the GPA computation.

Grade Definition	Grade Points per Semester Hour
A The student has, in a superior way, met the objectives established for the course.	4
B The student has more than adequately met the objectives established for the course.	3
C The student has adequately met the objectives established for the course.	2
D The student has minimally met the objectives established for the course.	1
F The student failed to meet the objectives established for the course.	0
I Incomplete: Indicates that a student has been doing acceptable work in the course but has not completed all required work. A minimum of 80 percent of course requirements must have been completed for the student to be eligible for an "I" contract. It is the student's responsibility to have this deficiency removed during the first two weeks of the following semester or the grade will be automatically changed to an "F." An "I" does not count as hours attempted or as hours earned.	0
CS Continued Study: Indicates that a student must continue study at his current level of Developmental Education coursework. This symbol does not count as hours attempted or as hours earned for purposes of calculating GPA. For financial aid purposes, these hours count as attempted but not completed.	0
NA Never Attended: Indicates the student registered but never attended.	0
AU Audit: This grade does not count as hours attempted or as hours earned.	0
W Withdraw: Indicates the student withdrew before the published withdrawal date that can be found in the College calendar. This symbol does not count as hours attempted or as hours earned for purposes of calculating GPA. For financial aid purposes, these hours count as attempted but not completed.	0
S Credit by Exam: The student received credit for the course through a proficiency examination. This symbol counts as hours earned but not as hours attempted. No more than one-half of the required credit for a degree, a diploma, or a certificate may be earned through "Credit by Exam" unless otherwise approved by the Vice President for Instruction and Student Services.	0
P Passing: Awarded upon successful completion of certain continuing education courses. Eighty percent attendance is required.	0
AP Advanced Placement: This symbol counts as credit hours earned but does not count in GPA calculations.	0
SP Secondary Placement: This symbol counts as credit hours earned for certain eligible high school courses but does not count for purposes of calculating GPA.	0

The asterisk (\*) symbol immediately following the letter grade prior to fall 2007 indicates the course is not included in the GPA.

The pound (#) symbol immediately following the letter grade after summer 2007 indicates the course was academically forgiven and is not included in the GPA.



**HONORS/ACADEMIC ORGANIZATIONS****President's List**

1. Only students who have completed a minimum of 12 credit hours at the end of the semester are considered.
2. The student is to have a minimum 3.85 Grade Point Average (GPA) to qualify for the semester under consideration.
3. Unresolved "I" and "F" grades will automatically eliminate a student from this list for that particular semester. Credit for a course by examination or transfer does not affect eligibility.
4. Developmental courses do not count toward the 12 hours or the GPA.

**Dean's List**

1. Only students who have completed a minimum of 12 credit hours at the end of the semester are considered.
2. The student is to have a 3.500 - 3.849 GPA to qualify for the semester under consideration.
3. Unresolved "I" and "F" grades will automatically eliminate a student from this list for that particular semester. Credit for a course by examination or transfer does not affect eligibility.
4. Developmental courses do not count toward the 12 hours or the GPA.

**Annual Academic Awards Ceremony**

Students will be eligible to participate in the Academic Awards Ceremony to be held during the spring semester if they meet the following criteria:

1. The student must have earned a minimum of 30 semester hours credit within the last four (4) years by the end of fall semester before the ceremony. The minimum hours must have been earned at SCC.
2. The student must be enrolled during the term in which the ceremony is held.
3. The student must have a cumulative average of 3.5 or above.
4. All eligible students will be honored at the Awards Ceremony during the spring semester. Students who maintain a perfect 4.0 cumulative shall receive "high honors" recognition.

**Graduating with Honors**

1. During the final week of the semester, the Registrar will rank the candidates for associate's degrees or diplomas according to their cumulative GPA from the previous semesters of work. Each cumulative GPA will be rounded to two decimal places.
2. Each candidate with a cumulative GPA from 3.95 to 4.00 will graduate summa cum laude.
3. Each candidate with a cumulative GPA from 3.90 to 3.94 will graduate magna cum laude.
4. Each candidate with a cumulative GPA from 3.85 to 3.89 will graduate cum laude.
5. When the selections have been determined by the Registrar, the instructors of those selected will be contacted to determine whether the candidate is maintaining the same quality of work during the final semester as during the previous semesters.
6. Candidates who are failing or doing poor work in the final semester will be excluded from the list when the Registrar receives written notice from the instructors.

**Alpha Beta Gamma International Business Honor Society – Alpha Omega Chapter**

Alpha Beta Gamma International Business Honor Society is the sole business honor society for accredited junior, community and technical two year colleges. The society exists to recognize and reward academic excellence among business honor students and to recognize the contribution to learning and business of professionals in the local communities. Members of Alpha Beta Gamma are challenged to subscribe to the society's high ideals of scholarship, leadership and cooperation.

To be considered for membership, students must:

- Be currently enrolled as a full or part-time student in a qualifying business-related associate in applied science program
- Have completed at least 15 hours of college-level academic credit during the previous three semesters
- Have a cumulative GPA of 3.0 or higher
- Demonstrate the ideals of scholarship, leadership, and cooperation
- Be nominated by program faculty.

**SCC Honors Program**

The Honors Program at Southwestern Community College is designed to:

- Challenge high achieving and highly motivated students to purposefully engage in Honors coursework. Honors coursework is designed to enrich and expand the expectations of the traditional college course.
- Intentionally focus on academic excellence including critical thinking, communication skills, and academic inquiry. Honors coursework generally will be more writing, research and/or project intensive.
- Engage students and faculty across all disciplines.
- Encourage and support Honors students in leadership and service to the College and the community.

Honors Program Eligibility – Must meet one of the following criteria:

- A 3.5 or higher cumulative GPA with at least 12 semester hours of college coursework
- A high school weighted GPA of 4.00 or higher
- A high school class rank in the top 10 percent
- An SAT of 1875 or an ACT of 30 or higher

Benefits to Honors Students

- Honors designation on the degree/diploma.
- Transferability of SCC honor credit to several North Carolina senior institutions.
- Recognition at graduation as an “Honors Program” graduate after the successful completion of 12 credit hours worth of honors work.

Honors Credit Appeal

In the event a student wishes to appeal an unsatisfactory honors project outcome, the student must appeal the decision to the chair of the honors program within three weeks of learning the honors project was not awarded credit. Upon notification to the honors program chair, the honors appeals committee will convene to review the appeal.

To participate, contact Cheryl Contino-Conner at (828) 339.4245 or via email at [Cheryl@southwesterncc.edu](mailto:Cheryl@southwesterncc.edu).

### National Technical Honor Society

The National Technical Honor Society (NTHS) is an acknowledged leader in the recognition of outstanding student achievement in workforce education. Over 1,500 schools and colleges throughout the United States and foreign countries are affiliated with NTHS.

The Southwestern Community College Chapter of the NTHS was chartered to recognize the achievement of full and part-time students. Members are nominated by program faculty from the student population with a 3.5 or greater grade point average and who have completed 12 hours of academic course work above the 100 level. To be eligible for membership, a nominee must be enrolled as an active student in a degree, diploma or certificate program.

Nominees must:

- Maintain the highest standard of personal and professional conduct
- Strive for excellence in all aspects of education and employment
- Refuse to engage in or condone activities for personal gain at the expense of their fellow students, school or employer
- Support the mission and purpose of NTHS while working to achieve the objectives and goals of the society and
- Fulfill their obligations as a citizen of their community and country.

### Phi Theta Kappa International Honor Society - Alpha Eta Nu Chapter

The purpose of Phi Theta Kappa is the recognition and encouragement of scholarship and leadership among community and junior college students. To achieve this purpose, Phi Theta Kappa provides opportunities for the development of leadership and service, an intellectual climate for exchange of ideas and ideals, lively fellowship of scholars and stimulation of interest in continuing academic excellence.

To be considered for membership, a student must:

- Be enrolled full-time at Southwestern Community College (12 credit hours), and have completed 24 hours on a full-time basis toward an associate's degree at Southwestern Community College
- Have a cumulative GPA at Southwestern Community College of 3.50 or better for the last two semesters enrolled
- Possess both ethical standards and qualities of citizenship and leadership
- Complete membership formalities as prescribed by the national organization
- Pay national, regional and chapter dues.

### LICENSING OF GRADUATES

Southwestern Community College is an educational institution, which assumes no responsibility for the licensing of its graduates. Students convicted of a felony or any other crime involving moral turpitude may not be recognized by the desired licensing agency.

### POLICIES/PROCEDURES

#### Academic Forgiveness Procedure

Any student who meets the following criteria may submit, in writing to the Office of the Vice President for Instruction and Student Services, a request for academic forgiveness.

- The student should have experienced a lapse in enrollment at SCC for a minimum of 24 months or two academic years.
- Upon returning, at least twelve semester hours of curriculum courses should have been completed with a GPA of 3.00 or greater.
- The request for forgiveness should be submitted during the subsequent semester (excluding summer) after the 12 semester hours have been completed.

If the request is approved, all grades of D and F within the requested review period/consecutive terms will be forgiven and will not be used for GPA (Grade Point Average) computation for credits earned toward graduation requirements. Any forgiven work, if needed for completion of a certificate, degree, or diploma must be retaken. All grades will remain on the student's transcript.

If you have questions about how a Request for Academic Forgiveness may impact your financial aid, please contact the Financial Aid Office. If approved, a notation indicating academic forgiveness will appear on the official transcript. Students may submit only one academic grade forgiveness request.

### **Academic Probation**

**Level 1 Probation (Warning):** Degree, diploma and certificate seeking students performing below a 2.0 grade point average in the previous semester will be placed on academic probation. A student on academic probation will work with his/her advisor to develop an academic plan and/or will be directed into specialized coursework. (A “Warning” does not appear on the student’s transcript.)

**Level 2 Probation:** Degree, diploma and certificate seeking students who have not attained a 2.0 grade point average for the two most recently enrolled terms within the past three years will be required to review and modify their academic plans with their advisor and to meet with the Student Success Coordinator. Additionally, they may be required to limit their semester course load and will be advised to register for ACA 118 if they have not already done so. (A “Probation” notation appears on the student’s transcript.)

### **Academic Suspension**

Probationary students who have not attained a 2.0 grade point average for the three most recently enrolled terms within the last three years and have a cumulative GPA below 2.0 will be suspended for one semester. (A “Suspension” notation appears on the student’s transcript.)

### **Disciplinary Suspension**

Students who are suspended from the College for violating the Student Code of Conduct (see Student Handbook) will have this suspension noted on the transcript.

### **Course Substitution**

When it is determined to be in the best interest of the student’s declared educational objective, appropriate courses may be substituted for other courses for graduation purposes. Necessary course substitutions within the major field (courses reflecting the prefix of the student’s major curriculum) require the approval of the student’s program coordinator or advisor.

Course substitutions from curricula outside the student’s major area, which have been made for the purpose of addressing the general education or related course requirements, must also be approved by the Dean of Arts and Sciences. The advisor must notify the Registrar in writing of all applicable course substitutions on an individual student basis.

### **Curriculum Course Prerequisites**

Students may not take a course until a course prerequisite has been met. There are occasions when exceptions may be deemed desirable and appropriate. The instructor and/or program coordinator and the dean/director must approve such exceptions. The documentation will be maintained on file in the dean’s office.

### **Repeating Courses**

Curriculum courses with earned grades of “D” or “F” may be repeated. Courses with earned grades of “C” or higher may be repeated only by special permission from the appropriate dean. When courses are repeated, the grade and hours of the last course will be computed in the cumulative grade point average. The first course (grade and hours) is shown on the transcript but is not included in the cumulative grade point calculations. If a student receives three “F” grades for the same course, the student must wait at least two academic terms before repeating the course. Exceptions may be made by the instructor or dean.

### Student Records

Student records are maintained in accordance with the Family Educational Rights of Privacy Act (FERPA) of 1974 and the College's "Student Record" Policy found in the SCC Student Handbook. Questions concerning student records and requests for record inspection should be directed to the Registrar. Current or former students may secure a transcript of their grades by completing a "Transcript Release Form" and submitting it to the Registrar's Office along with a photo ID. In compliance with the Privacy Act, student transcripts will not be released to a third party without the signature of the student. Information deemed public or directory information may be released without student consent. Directory information is defined in the College's Student Records Policy. SCC complies with the USA Patriot's Act of 2001.

Students have the right to give or restrict access to their student records. To exercise this right, students should read the "Student Records" policy (found in the Student Handbook) and make a written request to the Registrar's Office.

### WEATHER POLICY

The following procedure will be observed for adverse/inclement weather; however, regardless of college announcements, commuters should exercise personal judgment concerning highway road conditions, particularly those from other counties or remote areas. If the College is open, no announcement will be made.

Announcements concerning college operation will be made by 6:30 a.m. on the local TV and radio stations listed below. However, if weather conditions worsen after the 6:30 a.m. announcement, an additional announcement closing the College for the day will be made no later than 8:30 a.m. Announcements concerning evening classes will be made no later than 3:00 p.m. The following types of announcements may be made:

1. **Delayed Start:** If the College is on delayed start, the campus will open at 10:00 a.m. Students should report to the class/lab/clinic they would be in at 10:00 a.m. on a regular day. All instructional time missed in a delayed start will be made up.
2. **Classes Canceled:** This indicates that the College remains open and staff should report to work at 10:00 a.m. and use extreme caution.
3. **College Closed:** This means there are extremely hazardous conditions and no one should report to work or class.
4. **Early Dismissal:** Early Dismissal will be announced when weather conditions dictate the early dismissal of day or evening classes. This type of announcement will be made by telephone to a designee in each building on campus, who will communicate the early dismissal information to the occupants of the building.

#### Radio Stations:

99.9 FM - WKSF, Asheville  
 95.3 FM - WCQS, Asheville  
 104.5 FM - WHLC, Highlands  
 1590 AM - WBHN, Bryson City  
 1320 AM - WKRK, Murphy  
 1370 AM - WGHC, Clayton, GA  
 95.9 FM - WCVP, Robbinsville  
 104.1 FM - WRBN, Clayton, GA  
 680 AM - WRGC, Sylva  
 1050 AM - WFSC, Franklin  
 104.9 FM - WQNS, Waynesville  
 96.7 FM - WRFR, Franklin

#### Television Stations:

ABC - WLOS, Asheville  
 NBC - WYFF, Greenville, SC  
 CBS - WSPA, Spartanburg, SC

#### SCC Web Page:

[www.southwesterncc.edu](http://www.southwesterncc.edu)

Sign up for SCC Twitter notification through the SCC Web Page

# FINANCIAL INFORMATION

- Expenses
- Tuition and Fees
- Other Fees
- Payment of Tuition and Fees
- Refund Policy
- Financial Aid

## SUCCESS STORY

**Creating Success**  
NC Community Colleges  
Hope • Opportunity • Jobs

### Jodie Waldroup

SCC Graduate  
College Transfer Program



Jodie Waldroup received the Western Carolina University Chancellor's Achievement Award for the outstanding Southwestern Community College student. The award includes a scholarship for four semesters to fund tuition and fees.

To be eligible for the award Jody had to have a grade point average of 3.75 or higher and approximately 60 hours of transfer credit.

She recently graduated with her associate in arts degree-college transfer. While at Southwestern she was in the honor's program and those honors credits transferred to WCU.

"That put me just 12 hours away from getting my full 24 hours of honors work," she said. "Being in the honor's program at SCC helped me in more than one way. It helped me exceed what I think I could do as a student and made me think more creatively.

"I really feel like SCC prepared me for WCU," said Jody, who is majoring in psychology there, as well as minoring in professional writing. "Most people say that community college is easier than a university but I find that to be wrong because so far I feel like SCC and WCU both demand the same work ethic from the student."

"I worked my whole entire sophomore year of college to be eligible for this scholarship and to be awarded it out of many incredible applicants is amazing," Jody said. "It really shows and proves that if you set your mind to something the only thing that stands in your way is yourself."

**EXPENSES**

Student tuition and fees are set by the North Carolina Legislature and the SCC Board of Trustees and are subject to change.

Some programs require additional expenses for uniforms, equipment, medical and other miscellaneous expenses. Contact the program advisor for more information. No fee is charged to verify student identity.

**TUITION AND FEES\***

**\*Tuition for 2011-12. Tuition for 2012-13 will be available after July 1, 2012**

**Per Semester**

Full-Time, 16 hours or more .....	\$1064.00
Non-Resident Full-Time, 16 hours or more .....	\$4136.00
Part-Time Student (per credit hour) .....	\$66.50
Non-Resident Part-Time Student (per credit hour) .....	\$258.50

**OTHER FEES\***

**\*Tuition for 2011-12. Tuition for 2012-13 will be available after July 1, 2012**

Activity Fee (per semester) .....\$2 per credit hour.

Maximum \$32 per semester. Collected fall and spring only.

Computer Use and Technology Fee (per semester) .....\$1 per credit hour.

Maximum \$16 per semester.

Exception: Curriculum students at Job Corps sites will not be assessed Student Activity or Computer Use and Technology Fees.

Student ID/Library Card.....\$1

Replacement Student ID Card (Lost or Stolen) ..... \$5

Automobile Registration ..... N/C

Accident Insurance (per year - optional, subject to change) .....\$15

Health Occupations Aptitude Exam (if applicable) .....\$20

Malpractice Insurance (subject to change) Required for following programs - per year

Cosmetology.....\$17

Emergency Medical Services (per semester) .....\$35.50

Health Information Technology.....\$17

Human Services Technology.....\$17

Human Services Technology Substance Abuse .....\$17

Medical Laboratory Technology .....\$17

Nursing Assistant .....\$17

Nursing (Associate Degree).....\$17

Physical Therapist Assistant.....\$17

Phlebotomy .....\$17

Practical Nursing.....\$17

Radiography.....\$17

Respiratory Therapy .....\$17

Therapeutic Massage.....\$17

Late Registration Fee.....\$5

(Full-time returning students registering after registration day)

Commencement Fee (Cap & Gown - subject to change) .....\$45

Textbooks/Supplies ..... Cost varies depending on the student's curriculum.

Check with the College Bookstore for prices.

### NC Senior Citizens

Tuition shall be waived for up to six credit hours per academic semester for senior citizens age 65 or older who are qualified as legal resident of North Carolina. Applicable Fees will be charged. If an eligible senior citizen enrolls in more than six credit hours, he/she shall be charged tuition and fees above six credit hours.

### PAYMENT OF TUITION AND FEES

Tuition and fees are due and payable at the time of registration. To complete the registration process, tuition and fees must be paid during the registration period. The college does not provide for installment payments of fees, tuition, books, etc.

#### Methods of Payment:

Pay online with Mastercard, Visa, Discover or American Express using mySCC access  
OR

Cash or Personal Check

Students receiving third-party sponsor funding for their tuition (WIA, BIA, Vocational Rehabilitation, etc.) must provide a sponsor authorization letter for billing from the sponsor before the registration period ends. If this authorization letter is not provided by this time, the student forfeits their sponsorship funding, and the sponsor will not be billed on their behalf. It is the responsibility of the student to verify that the sponsor authorization letter has been received by the business office.

Students unable to pay tuition and fees in full at registration can make a one-time request to the Business Services Office for a 10 calendar day deferment. This request must be made on registration day and is a one-time only privilege. Even if a deferment is granted, students will be required to pay 25% of the tuition and fees at the time of the request.

Students must clear any unpaid balance due on account from any previous semester in order to register for a new semester or receive an official transcript.

### How to Contact Business Services and Cashiers Office

Location: Jackson Campus, Balsam Center

Telephone: (828) 339.4290 • Toll-free: (800) 447.4091, ext. 4290

Address: 447 College Drive, Sylva, North Carolina 28779

Web page: [www.southwesterncc.edu](http://www.southwesterncc.edu)

### REFUND POLICY

If a student withdraws from class(es) prior to the 10% point of the semester, SCC will calculate the student's refund amount using the state refund policy as stated below.

1. A refund shall not be made except under the following circumstances:
  - A) A 100% refund shall be made if the student officially withdraws prior to the first day of class(es) of the academic semester or term as noted in the College calendar. Also, a student is eligible for a 100% refund if the class in which the student is officially registered is cancelled due to insufficient enrollment.
  - B) A 75% refund shall be made if the student officially withdraws from the class(es) prior to or on the official 10% point of the semester.
  - C) For classes beginning at times other than the first week (seven calendar days) of the semester a 100% refund shall be made if the student officially withdraws from the class prior to the first class meeting. A 75% refund shall be made if the student officially withdraws from the class prior to or on the 10% point of the class.



- D) A 100% refund shall be made if the student officially withdraws from a contact hour class prior to the first day of class of the academic semester or term or if the College cancels the class. A 75% refund shall be made if the student officially withdraws from a contact-hour class on or before the tenth calendar day of the class.
2. To comply with applicable federal regulations regarding refunds, federal regulations supersede the state refund regulations stated in this rule.
  3. Where a student, having paid the required tuition for a semester or term, dies during the semester (prior to or on the last day of examinations of the College the student was attending), all tuition and fees for that semester or term may be refunded to the estate of the deceased.

**State Refund Policy**

Southwestern Community College does not have an approved Accrediting Agency Refund Policy.

**Non-Title IV Recipients**

The refund policy for students not receiving Title IV financial aid is the same as the State Refund Policy statement above.

## FINANCIAL AID

### Purpose

The purpose of the financial aid programs at SCC is to provide financial assistance, based on need, to students who normally could not attend college without aid. Financial aid is awarded without regard to age, race, creed, sex or disability. The programs are based on the guiding principle that the student or family of the student has the primary responsibility for educational costs, and the purpose of the financial aid programs is to supplement the student or family contributions. For further information about Expected Family Contribution, see “Financial Need” section below.

Prospective students are encouraged to gather information about the current costs to attend their program of interest. In addition to tuition, fees and books, some programs require special equipment, supplies, or clothing. Students should also discuss all options for paying for education costs with their family.

Students applying for financial aid should apply as soon as possible but well in advance of the semester they plan to attend. Students should adhere to the deadlines and follow the steps outlined in the “How to Apply for Financial Aid” instructions found later in this section.

### Eligibility Requirements

To receive aid from any of the federal and state student aid programs at SCC, students must meet all of the following general criteria:

- Have financial need, except for some loans (Financial need is documented through the submission of a Free Application for Federal Student Aid [FAFSA] and the receipt of a valid Student Aid Report [SAR].)
- Have a high school/adult high school diploma or a GED Certificate
- Be accepted for enrollment in an eligible program at SCC
- Be a U.S. citizen or an eligible non-citizen
- Have a valid Social Security Number
- Meet Satisfactory Academic Progress standards set by SCC
- Certify that he is not in default on a federal student loan and does not owe money on a federal student grant
- Register with the Selective Service, if required
- Meet federal eligibility requirements regarding drug-related convictions.

### Financial Need

Aid from most of the financial aid programs is awarded on the basis of financial need. When applying for federal student aid, the information reported on the application is used to calculate each student’s Expected Family Contribution (EFC). The formula used to calculate the EFC is established by federal law and is used to measure the financial strength of a student’s family on the basis of the family’s income and assets. The EFC is used to determine a student’s eligibility for student aid. The EFC is used in the following equation to determine a student’s financial need:

$$\begin{array}{r} \text{Cost of Attendance} \\ - \text{Expected Family Contribution} \\ \hline \text{Financial Need} \end{array}$$

The Financial Aid Office at SCC will calculate all students’ cost of attendance and subtract each student’s EFC. If there is any amount remaining, that student is considered to have financial need. The Financial Aid Office will work with students toward meeting their need. Because funds are limited, the amount awarded to an individual student will likely fall short of meeting his total need.

### Financial Aid Programs at SCC

In general, there are four types of financial aid. **Grants** and **scholarships** are gift money that does not need to be repaid. **Work-study** is money that is earned by working, and **student loans** are borrowed funds that must be repaid.

The following need-based **grants** are available to eligible students at SCC:

- The Federal Pell Grant is generally awarded to undergraduate students with financial need who have not earned a bachelor's degree. Pell Grants for the 2011- 2012 school year ranged from \$555 to \$5,550 per year. A student's EFC will determine whether or not he is eligible and how much he will receive. If a student is eligible, he will be notified of the full-time award amount, but the amount actually paid will depend on whether he is enrolled full-time or part-time, and whether he attends for a full academic year or less.
- The Federal Supplemental Educational Opportunity Grant (FSEOG) is a smaller grant that is awarded to students with the greatest financial need (lowest EFC). Limited funds are provided by the Federal Government and are awarded by the SCC Financial Aid Office to both full-time and part-time students.
- The North Carolina Community College Grant is a program established by the North Carolina General Assembly to help meet the educational costs of attending a community college. To be considered for this grant, a student must be a North Carolina resident for tuition purposes and enrolled at least half-time (6 credit hours per semester). A student's EFC will determine whether or not he is eligible and how much he will receive.
- The North Carolina Education Lottery Scholarship (ELS) is a need-based scholarship, and the student's EFC will determine whether or not he is eligible and how much he will receive. The student must be a North Carolina resident for tuition purposes, and be enrolled at least half-time (6 credit hours per semester). Filing the FAFSA will submit the student's name for consideration for this scholarship.

Each grant above has several specific eligibility criteria which must be met. Please contact the SCC Financial Aid Office for additional details.

**Federal Work-Study** provides part-time jobs for students with financial need, allowing them to earn money to help pay education expenses. Most of the jobs are on campus and clerical in nature, but the program also encourages jobs in community service and literacy support.

**Student Loans** are borrowed money that must be repaid with interest. Both need-based and non need-based loans are available. SCC currently offers Federal Direct Loans to students and PLUS loans to parents. Students must be enrolled at least half-time to receive a student loan. The amount a student may borrow will be determined by a number of factors, including whether he is a first-year or second-year student, whether he is a dependent or independent student, and the amount of other educational assistance.

**Scholarships** are funds that do not have to be repaid and may be awarded based on financial need or some type of merit (such as academic) or a combination of the two. Students are encouraged to pursue scholarship opportunities throughout their communities such as civic organizations and churches, and to research other national scholarships through reputable organizations and web sites. A limited number of scholarships are offered through the SCC Foundation and other private donors each year. The most current list of scholarships administered through SCC and the filing instructions and deadlines can be found in the Financial Aid Office or by going to the Scholarship page of the SCC web site.

### Other Programs

SCC works with governmental agencies that provide educational benefits to students who are eligible for their programs. Information and applications are available upon request from the individual agency. Students receiving third-party sponsor funding for their tuition must provide

a sponsor authorization letter for billing from the sponsor before the registration period ends. If this authorization letter is not provided by this time, the student forfeits their sponsorship funding, and the sponsor will not be billed on their behalf. It is the responsibility of the student to verify that the sponsor authorization letter has been received by the business office.

- The Workforce Investment Act (WIA) of 1998 provides financial assistance to income-eligible persons enrolled in an approved curriculum. The program is usually administered through the North Carolina Job Link Career Centers in the student's county of residence.
- The North Carolina Division of Vocational Rehabilitation provides services to persons with disabilities in order to help them obtain employment. SCC is approved to provide training and education for individuals who qualify under the provisions of the North Carolina Division of Vocational Rehabilitation, Department of Health and Human Services.
- The Cherokee Education and Training Adult Education Program administers educational assistance programs for the Eastern Band of Cherokee Indians and the Bureau of Indian Affairs.
- The U.S. Department of Veterans Affairs provides educational benefits to eligible veterans and to eligible dependents and survivors of certain veterans. Students who believe they are eligible for veterans' benefits should contact the VA Certifying Official in the SCC Student Services Office to receive an application for benefits and a list of requirements that they must meet.

### How to Apply for Financial Aid

In order to receive federal grants, state grants, loans, work-study, and most scholarships, you have to file the FAFSA. You only need to submit the FAFSA once per academic year.

#### 1. File the FAFSA

- Get personal identification number (PIN) at <http://www.pin.ed.gov>
- Complete a FAFSA at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) and be sure to use the IRS Data Retrieval, if eligible, to import tax data.
- SCC's federal School Code is **008466**.

#### **FAFSA Deadlines:**

Our priority deadline is May 1 of each year for students starting in the following Fall semester. However, FAFSAs received after this date will still be processed. It can take up to 2-3 weeks for SCC to receive your FAFSA results, so apply as early as you can after January 1 (non-tax filers) or February 1 (tax filers) of each year. Students starting in the Spring or Summer semester should file their FAFSA at least 3 months in advance.

#### 2. Apply to an eligible program at SCC

- The Financial Aid Office cannot view your Student Aid Report (SAR) until an Admissions application to the College is on file.
- SCC Admission's Office will send you an acceptance letter with your SCC student ID number.

#### 3. Review your Student Aid Report (SAR)

- Read email from the Department of Education, and follow link to view SAR. Read comments at the end of the report.
- Check information on SAR for accuracy.
- If you are eligible but did not use the IRS Data Retrieval, please go back and correct your FAFSA using the IRS Data Retrieval.

**4. Send Requested Documents to the SCC Financial Aid Office**

- Read SCC email from Financial Aid Office. Go to MySCC/Webadvisor to see requested documents.
- Download any requested Financial Aid Forms complete, and submit to SCC Financial Aid Office.

**Satisfactory Academic Progress**

To receive financial aid, the Federal Government requires students to make Satisfactory Academic Progress towards completing a degree or approved program. Progress will be monitored at the end of each semester at SCC. Results are measured cumulatively, so if a student has attended SCC in the past, his transcript will be evaluated for Satisfactory Academic Progress if he returns to SCC and applies for financial aid, even if he has not received aid in the past.

Satisfactory Academic Progress is measured in two ways:

1. Students must earn a 2.0 cumulative Grade Point Average, which is consistent with the requirements for graduation or completion of a program.
2. Students are limited to the number of credit hours they may attempt before finishing a program of study. That limit is measured as 150% of the credit hours required for the student's current program. Therefore, in order to be on track to complete a program before financial aid ends, SCC requires students to complete 70% of the courses they have attempted on a cumulative basis.

If a student is not making Satisfactory Academic Progress, he will be notified and placed on Financial Aid Warning for the next semester he is in attendance so that he will have an opportunity to regain Satisfactory Academic Progress. He will receive any financial aid for which he is eligible during this Financial Aid Warning term.

Students have the right to file an appeal if it is determined that they are not making Satisfactory Academic Progress. The appeal must be made in writing to the SCC Financial Aid Committee and the appeal form is available from the Financial Aid Office. Appeals should be based on mitigating circumstances such as severe illness of the student, death of an immediate family member or a change of academic program. Additional details of the Satisfactory Academic Progress policy are available in a publication from the SCC Financial Aid Office.

**Withdrawals**

If a student completely withdraws from all classes or stops attending all classes and has received a Pell Grant, a Federal Supplemental Educational Opportunity Grant, or a Federal Direct Loan for that semester, the Financial Aid Office must determine if those funds were earned. Students earn their aid once they have attended beyond the 60% date of the semester. If more funds were disbursed than earned, the student must repay a portion of the difference. The Financial Aid Office will determine the amount the student must repay the US Department of Education (DOE) and the amount SCC must repay the DOE. If SCC is required to repay funds because of a student's full withdrawal, the student will be expected to repay SCC. The student will receive written notification from the SCC Financial Aid Office of any funds owed due to a full withdrawal.

Students are encouraged to visit the Financial Aid Office prior to withdrawing to obtain an estimate of the amount that may be owed. If a student owes funds to the DOE, he will be given 45 days to repay the funds or make satisfactory repayment arrangements with the DOE. After that time, the student will lose federal financial aid eligibility. In addition, if the student owes funds to SCC, he will not be permitted to reenroll at SCC or request a transcript until those funds have been repaid.

According to the SCC Withdrawal Procedure described elsewhere in this catalog, in order to withdraw a student should contact his advisor to initiate the Drop/Add form. The form must be signed by the advisor and appropriate instructor(s) and returned to the Registrar's Office for processing.

### **Special Circumstances**

The formulas used to determine eligibility for federal student aid are applied consistently to all applicants. Students should contact the SCC Financial Aid Office if they feel they have special circumstances that might affect their dependency status or the amount they and their family are expected to contribute. These circumstances could include a family's unusual medical expenses, or recent unemployment of either themselves, a spouse or either parent (if applicable). There must be very good reasons to make any adjustment, and students will have to provide adequate documentation to support this request. The Financial Aid Director's decision is final and it cannot be appealed to the U.S. Department of Education.

### **How to Contact the Financial Aid Office**

Location: Jackson Campus, Balsam Center

Telephone: (800) 447.4091 • (828) 339.4438

Fax: (828) 339.4613 • Attn: Financial Aid

Address: 447 College Drive, Sylva, North Carolina 28779

Web page: [www.southwesterncc.edu/finaid/index.htm](http://www.southwesterncc.edu/finaid/index.htm)

E-mail: [financialaid@southwesterncc.edu](mailto:financialaid@southwesterncc.edu)

## SUCCESS STORY

**Creating Success**  
 NC Community Colleges  
 Hope • Opportunity • Jobs

### Kim Anthony

EMS Paramedic, MedWest



“I take pride in being able to treat the people in the community because of the education I received at Southwestern,” said MedWest EMS paramedic Kim Anthony, who proudly wears her SCC pin on her uniform.

Kim, who graduated first in her class, embraces the community aspect of Southwestern Community College.

“It’s nice to be educated in the community you serve. I didn’t get my degree then go off somewhere; I stayed here. One of the key functions of my job is connecting with people in the community. I don’t just go through the motions of doing a job; I treat each person with empathy, just like they are my family. In fact, I always think, ‘What if this person were my family member?’ It’s a big responsibility.”

If you are involved in an accident, Kim may be the first person you see on the scene. In fact, Southwestern trains 85 percent of the people in the region who respond to your medical emergency.

In her field Kim finds opportunity for a variety of specialties. She is the first dedicated medic assigned to the Jackson County Sheriff’s Department Special Weapons and Tactics Team. She’s also certified to treat the four-legged K-9 cops as well.

“You have to adapt quickly to any situation,” said Kim. “Each day is different and I look forward to the challenge.”

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## STUDENT LIFE

- Academic Advocate
- Ambassadors
- Bookstore
- Career Center
- Clubs and Organizations
- Conduct Standards
- Holt Library
- Learning Assistance Center
- Student Identifications/Library Cards
- Student Life
- Student Information
- Student Policies and Procedures
- Student Right-to-Know Information
- Student Support Services
- Support Services for Students with Disabilities
- Tobacco Use
- Tutoring



**ACADEMIC ADVOCATE**

The Academic Advocate works with students who are experiencing academic difficulty by assisting them to develop plans for a successful semester. The Academic Advocate has many academic resources on a variety of topics related to student success; including study tips, testing tips, and time management skills. The office also has a list of external resources to empower you to complete your program at Southwestern.

**How to Contact the Academic Advocate**

Email: [r\\_whitley@southwesterncc.edu](mailto:r_whitley@southwesterncc.edu)

Telephone: (828) 339.4476

Location: Jackson Campus, Oaks Hall

Web page: [www.southwesterncc.edu/content/academic-advocate](http://www.southwesterncc.edu/content/academic-advocate)

**AMBASSADORS**

This prestigious student organization was established to serve the SCC Foundation, President's Office and the College in an exciting way as student hosts and representatives of SCC at social, alumni and recruitment events. Members help in student recruitment through activities on and off campus; meet and greet campus and community leaders at college events; make contact with alumni leaders; and hone leadership skills. Members go through an application and interview process. Membership drive begins early in spring semester.

**BOOKSTORE**

New and used textbooks and school supplies are available in the College Bookstore located on the third floor of the Balsam Center.

SCC maintains a contract with College Bookstores of America to operate the bookstore. Hours of operation typically are 8 a.m. until 4 p.m., Monday through Thursday and 8 a.m. until noon on Friday.

**CAREER CENTER**

Your Key to the Real World...

The mission of the Career Center is to educate students and alumni to prepare them for successful job searches and to develop and maintain rewarding relationships with a diversity of employers and SCC faculty and staff.

Career Services offers a broad range of resources. With so many career possibilities available and a lifetime of work ahead, the Career Center encourages students to invest time in planning to achieve academic and career success. We encourage students to take advantage of the Career Center early in their college careers so they are prepared for job search or transferring to another college.

Services include:

- Career Assessment and Advising
- Career Assessments
- Help Researching and Exploring Careers
- Workshops and Seminars
- On-Line Career Library
- Interviewing Software
- Job Search and Placement Services

**How to Contact the Career Center**

Location: Balsam Center, 1st Floor

Telephone: (828) 339.4212

Web page: [www.southwesterncc.edu/news/career-center-services](http://www.southwesterncc.edu/news/career-center-services)

**CLUBS AND ORGANIZATIONS**

Students are encouraged to form clubs and organizations focusing on special interests or curriculum programs. Although clubs have membership requirements, no organization at SCC discriminates on the basis of race, color, sex, age, disability, religion, nationality or political preference.

The Club Council, under the direction of the Student Life Committee and the Dean of Student Services, has established requirements for forming and operating student clubs and organizations. These regulations are outlined in the Student Handbook. Student organizations must have official college recognition to use SCC's facilities or to conduct activities on campus. Active clubs at the time of this catalog's printing include:

- Alpha Beta Gamma International Business Honor Society (ABG)
- Campus Crusade for Christ (CRU)
- Culinary Arts Club
- Dumbledore's Army
- Electronics Club
- Epsilon Sigma Pi EMS Professional Society
- Emergency Medical Science Club
- Environmental Club
- Gaming Club
- Gay-Straight Alliance
- Health Information Technology (HIT) Club
- Human Services Technology (HSE) Club
- Latent Image Club
- Medical Assisting Club
- National Technical Honor Society (NTHS)
- Native American Society
- Nursing Club
- Outdoor Leadership Club
- Paralegal Club
- Phi Theta Kappa Honor Society
- PTA Club
- Respiratory Therapy Club
- Sonography Club
- Spanish Club
- Sports Club

**CONDUCT STANDARDS**

Southwestern Community College is committed to maintaining a safe and orderly educational environment for students and staff. Therefore, when in the judgment of college officials, a student's conduct disrupts or threatens to disrupt the college community, appropriate disciplinary action will be taken to restore and protect the sanctity of the community.

Students are expected to conduct themselves in accordance with generally accepted standards of behavior, scholarship and morality. The purpose of these standards is not to restrict student rights, but to protect the rights of individuals in their academic pursuits.

Students are responsible for knowledge of college rules and regulations. The Standards of Student Conduct are published in the Southwestern Community College Student Handbook and are available in Student Services.

### **HOLT LIBRARY**

Holt Library offers 24 computer lab workstations with Internet access and the Microsoft Office suite. There is also a snack bar, instruction/conference room, two study rooms, photocopier, chess table, & free printing from computer workstations. Seating spaces are designated into Collaborative, Quiet, and Silent study areas.

- Online Access: The “My SCC” portal (Library tab) gives online access, instruction, and information about Holt Library services and resources for students, staff and faculty. Community users access this information via the Library’s website.
- Circulating Collection: 31,000 books & 140 hard-copy journals, magazines, and newspapers directly support academic programs.
- Reserve Collection: Items in high demand are added at the suggestion of faculty and made available on request at the Information desk.
- Reference Collection offers specialized sources, for example, legal research volumes for in-house use.
- Special Collections: DVDs, Fiction, North Carolina, Children’s, NC-NET (for professional development), and Small Business Resource Center.
- Online Catalog: Search for books by title, author, subject or keyword, and manage your library account online. Catalog includes SCC + 46 community colleges in NC.
- NC-LIVE: To guarantee access to scholarly resources for students’ assignments, NC-LIVE provides a searchable, online index to full-text articles from 16,000 print publications, including magazine articles, national and local newspapers, e-books, streaming video, academic journals, and reference sources.
- Live Chat 24/7: This chat service connects you with a NC librarian who can help you locate resources, or answer research questions.
- Interlibrary Loan services: Patrons may borrow books in other NC community college libraries by placing a hold in the CCLINC online catalog. Students and faculty can borrow books from libraries nationwide by contacting Holt Library staff.
- Laptops are available for use inside the library. Users must present SCC photo ID.
- Research Instruction: Instruction Librarian creates workshops to demonstrate NC-LIVE resources and teach information literacy and online research skills. Faculty may request a basic or customized workshop for their classes. Research assistance for individual students or faculty members is always available.
- Returning Materials: All library materials must be returned by the end of each semester, and accounts cleared, before students are allowed to register, graduate or receive a transcript.
- Library Hours: Monday – Thursday (8 a.m. until 9 p.m.); Friday (8 a.m. until 5 p.m.); Closed Saturday and Sunday.
- Video Gaming Events: Popular spring & fall program where students bring in video games and consoles, organize tournaments, and play traditional board games. Library provides monitors, projectors, large screens, and free food.
- Distance Learners have access to library services, instruction and online resources.
- Macon Campus: The instruction librarian teaches library workshops in Macon Campus classes, and SCC courier delivers Holt Library materials to the Campus.

## LEARNING ASSISTANCE CENTER

### Jackson Campus LAC

The Learning Assistance Center (LAC) is a professionally staffed facility offering tutoring and exam proctoring. Students are encouraged to take advantage of over 50 hours per week of individualized instruction from professional learning consultants and specialized instructors. The LAC also provides a modern facility for the nationally certified peer tutoring program provided by Student Support Services (SSS).

The LAC area features a 16-station computer lab, six enclosed study carrels (four with computers) for individual study and tutoring, a Testing Room with twelve computers, SSS Tutoring Room, a lounge, and a resource library. The library includes resources available for checkout in the areas of reading, writing, literature, business and law, history, math, sciences, and “life skills,” focusing on vocabulary and spelling, study skills, test preparation, and career choices. Novels also are available for checkout. Instructors are invited to use resources as well and to recommend resources. They are also welcome to use the LAC’s exam proctoring service for the occasional makeup exam. Our proctoring service fully supports online classes.

LAC services are available to all SCC students and instructors free of charge. Most services are provided on a walk-in basis to ensure that students are able to obtain the help they need at the times that are most convenient for them. However, appointments may be made by calling the LAC coordinator at 339.4325. A Writing Consultant always is on duty, and oftentimes an Advanced Math Consultant is on duty as well. Schedules are posted on campus and provided online each semester for specialized services, such as sciences and advanced computer assistance. Tours of the LAC are available on a drop-in basis for individuals as well as by appointment for classes.

The LAC is open from 8 a.m. until 7 p.m., Monday through Thursday, and 8 a.m. until noon on Friday. It is closed during fall and spring breaks, as well as for holidays. Any unusual closings are posted to the LAC web page. Summer hours vary according to staffing. For additional information, contact the LAC Coordinator at 339.4325, stop by Oaks Hall 101, or see the LAC website (<http://www.southwesterncc.edu/lac-learning-assistance-center>).

Free online tutoring via Smarthinking.com is available through Blackboard. For more information, contact the Smarthinking coordinator at 339.4325.

### Macon Campus LAC

The Cecil L. Groves Center houses the Macon Campus LAC and is a state-of-the-art facility that consists of a 12-station computer lab, a classroom containing an additional 12 computers, and two traditional or “non-computer” classrooms. Additionally, there are two offices which can be used by tutors or instructors needing to meet with students.

The LAC is usually staffed from 8:30 a.m. to 5 p.m., Monday-Thursday, and 8:30 a.m. to noon on Friday, with varying summer hours. Currently, it operates with two consultants on duty, one specializing in Math and Science and the other in Reading and English. The Macon LAC strives to offer comparable services for faculty and students on the growing campus, including walk-in tutoring and test proctoring. The resource library is growing as well. For additional information, contact the Macon LAC Coordinator at (828) 369.7331, ext. 7028 or stop by room 230.

## STUDENT IDENTIFICATION/LIBRARY CARDS

A student identification/library card is available to all students for a \$1.00 charge for new cards and a \$5.00 charge for replacement cards. The ID card displays the student’s major and assigned ID number and is used as for campus identification and as a library card and may be used for various student life events. The ID card photo is taken and the card issued during orientation programs and during all campus registration periods. The card should be carried at all times while on-campus.

## STUDENT LIFE

Student Life is coordinated by the College's Student Life Committee. The committee, whose members include students, faculty, and staff, is responsible for (1) planning, coordinating and sponsoring campus-wide student activities, educational and cultural events; (2) assisting student clubs and organizations with resources and training; (3) coordinating events and programs of student clubs through the Club Council; and (4) allocating the student activity fee funds for programs and services that benefit students and student club activities.

Student Life events include Welcome Back, Constitution Day, Veteran's Day, guest speakers, spelling bee, contests, special events throughout the year and Spring Fling. Student Life sponsored programs and services include (1) support for the campus literary magazine – *Milestone*, (2) diploma covers for graduates, (3) refreshments for student orientation events and career workshops and (4) student club support.

The Student Club Council elects representatives to serve on the Student Life Committee and a chairperson who serves as the student representative to the SCC Board of Trustees. The council coordinates club activities and events and sponsors educational and leadership development workshops for club leaders. Contact Student Services for more information.

## STUDENT INFORMATION

Southwestern Community College respects the privacy and confidentiality of student information consistent with the Family Educational Rights and Privacy Act of 1974 (FERPA), which regulates the release of student information. Therefore, the primary communication regarding student information occurs with students. However, the College recognizes and appreciates that family and others have a role in supporting students and may have an interest in a student issue. With the student's permission, academic information may be released to a third party, or a support advocate may be present with the student and participate in a productive conversation related to an issue in question.

## STUDENT POLICIES AND PROCEDURES

The following policies and procedures affect all students and are published in the SCC Student Handbook and Planner. Students are responsible for obtaining a copy of the Handbook and becoming familiar with these policies.

POLICY	REFERS TO
Drug-Free Policy	Establishes SCC as a Drug-Free Environment and the penalties for violating the policy.
Student Clubs	Guidelines and requirements governing student clubs.
Student Record and Privacy Policy	Defines the right of access to students' records.
Student Rights, Standards of Conduct, Discipline, Appeal and Grievance Procedures	Defines students' rights and standards of conduct and outlines disciplinary procedures and sanctions. Defines grievance procedures — Academic and Non-Academic.
Traffic Code	Traffic and parking regulations for the SCC campus.

## STUDENT RIGHT-TO-KNOW INFORMATION

Southwestern Community College is committed to informing enrolled and prospective students about the probabilities of success in each program as well as current job market information. The United States Department of Education requires that each institution of higher education publish completion rates for individuals who entered as full-time students and who completed their curriculum programs within one-and-one-half times the time allowed for the program in the academic catalog. The average rate of persistence toward degree completion of students in each curriculum at SCC is available from the Registrar. The Career Center can provide current job market information and job-placement data for each academic program. Human Resources can provide campus crime statistics. All information is available at [www.southwesterncc.edu](http://www.southwesterncc.edu).

## STUDENT SUPPORT SERVICES

The College is funded with a Title IV education grant. This grant assists students in need of academic support so they may achieve their academic goal of graduation and/or transfer. To qualify for services, students must:

1. Have a need for academic support and a willingness to use program services;
2. Be a first-generation college student OR meet income guidelines OR have a documented ADA disability;
3. Be a first time post-secondary student;
4. Place at the 25% or higher on the English, Reading and arithmetic portions of the College placement test.

Program services include: academic co-advising, financial literacy/scholarship information, tutoring, supplemental grant aid support, career counseling, academic and personal counseling, volunteer enrichment, referral to community services and cultural enrichment programs. The program also includes an initiative to assist students who want to transfer to a four-year institution.

Also available to students is a large resource area equipped with two open, Internet-connected computers and a wide variety of course ready, job ready and resource ready materials in video, text and software mediums.

Students wishing to participate in the Student Support Services program must complete an SSS application and have an intake interview. For additional services and information, visit the SSS web page or contact the Student Support Services office at 339.4245 or 800.447.4091, ext. 4245 or stop by the offices located on the lower level of Oaks Hall.

## SUPPORT SERVICES FOR STUDENTS WITH DISABILITIES

In keeping with the Vision, Mission, and Goals of Southwestern Community College, it is the mission of Disability Services to remove barriers and ensure equal access for all students with disabilities. In support of this mission, the Disability Services Coordinator:

- Coordinates and provides accommodations and related support services to students with disabilities;
- Assists in transition and career services for students with disabilities; and
- Serves as advocate for students with disabilities while promoting independence, self-determination, and personal responsibility.

It is the responsibility of the student to make his or her disability known and to request academic or physical accommodations. Requests should be made in a timely manner to the Disability Services Coordinator and every reasonable effort will be made to provide services. Some accommodations may take as much as six weeks to arrange, so early contact can be critical.

Services offered to students with disabilities are designed to level the playing field for those students, promote retention and maintenance of good academic standing by providing reasonable accommodations when appropriate. Services are provided when deemed necessary and reasonable for a particular student and are determined on a case-by-case basis through an Educational Support Plan (or ESP). An ESP is a comprehensive plan which specifies appropriate classroom accommodations, and may include: alternative testing arrangements, extended time, distraction-free/quiet testing room, oral exams, readers, scribe, note-takers, use of a word processor, spell checkers, tape recorders, large print, preferential/special seating, magnifier screens, wrist supports, ergonomic chairs/tools, anti-glare screens, captioning of videos, rooms relocation, interpreters, or assistive technology. The Educational Support Plan is created collaboratively with the student and Disability Services Coordinator.

Each student requesting accommodations must provide current, comprehensive documentation of their disability by qualified professional (which may include, depending upon the nature of the disability: a physician, psychologist, audiologist, speech-language pathologist, Vocational Rehabilitation Counselor, physical therapist, optometrist, or learning disabilities specialist). Information regarding a student's disability is not obtained through the admissions process. Therefore, all documentation of disability should be sent directly to the Disability Services Coordinator. Disability-related information and records are maintained separately from academic records and are regarded in a confidential manner as outlined in the Family Rights and Privacy Act of 1974.

#### **How to Contact the Disability Services Office**

Location: Jackson Campus, Oaks Hall, Lower Level

Telephone: (828) 339.4229

Toll-free: (800) 447.4091, ext. 4229

Address: 447 College Drive, Sylva, NC 28779

Web page: [http://www.southwesterncc.edu/current\\_students/disability-services](http://www.southwesterncc.edu/current_students/disability-services)

#### **TOBACCO USE**

The Jackson Campus is a tobacco-free environment. The use of tobacco related products is strictly prohibited in any college buildings, facilities, vehicles or property owned, leased or operated by Southwestern Community College, including all outside areas.

Tobacco related products include, but are not limited to, cigarettes, cigars, pipe tobacco, smokeless tobacco, and simulated tobacco products such as e-cigarettes. The sale or free distribution of tobacco products, including merchandise, is also prohibited.

This policy applies to all college and early college employees, students, vendors, contractors, and visitors.

#### **TUTORING**

Certified at Level I and Level II through the College Reading and Learning Association/International Tutor Program Certification, SCC's Tutor Program offers tutorial assistance to students enrolled in curriculum classes. Tutoring is available at no cost to SCC students and is provided in one-on-one or small group sessions. This program offers valuable academic assistance through competent, qualified peer and non-peer tutors who strive to encourage student motivation and achievement, and promote academic excellence. Applications to obtain a tutor or to serve as a tutor are available in the Student Support Services Office on the first floor of the Oaks Hall or online at: <http://www.southwesterncc.edu/tutor-program>. For additional information, contact SCC's Tutor Coordinator at (828) 339.4231.

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## EDUCATIONAL OPPORTUNITIES

- Admission Eligibility
- Cost
- Course Repetition
- Basic Skills Literacy and GED Preparation
- Adult Basic Skills, GED Preparation and Adult High School
- Compensatory Education (CED)
- English as a Second Language (ESL)
- General Education Development (GED)
- Institute of Heritage Arts
- Public Safety Training



**ADMISSION ELIGIBILITY**

Admission is open to individuals who are at least 18 years-old and who are not enrolled in public school. Sixteen- to 18-year-olds may enroll in some courses, when space is available and pending proper permission. Students under 18 years of age may enroll in summer classes designed specifically for the younger student. Only individuals officially enrolled may attend class.

**COST**

There is no registration fee for Basic Skills, GED, Compensatory Education, or Adult High School classes. Senior citizen residents of North Carolina are fee exempt for some classes, as are firefighters, rescue personnel, EMS personnel and law enforcement officers.

**COURSE REPETITION**

Effective Sept. 1, 1993, the North Carolina Community College System established a Course Repetition Policy requiring students, including senior citizens, who take occupational extension courses more than twice within a five-year period, to pay the full cost of the course. This provision is waived if course repetition is required by standards governing the certification or licensing program in which the student is enrolled; therefore, EMS, fire, law enforcement and rescue personnel are exempt from the repetition policy as long as classes taken are job-related and subject to the certification or licensing provisions.

Students may enroll in community service courses as many times as necessary to accomplish their individual educational/training goals, provided they continue to show progress, do not prohibit others from participating, are willing to pay fees and do not violate policies of the North Carolina Community College System.

**BASIC SKILLS, LITERACY AND GED PREPARATION**

The purpose of the Basic Skills program is to provide an educational opportunity for those students in the three-county service area who did not complete their high school education or have not received their GED or who need to improve their reading, languages or math skills. Classes are flexible; they are designed to allow for individual differences in persons, 16 and older, who have been out of the public school system from six months to 30 years or more. Due to the varying levels of motivation, ability, available time, work habits and class commitment among the students, ABE instructors work individually with students to achieve realistic goals.

Instructional methods and materials appropriate for adults are used to help promote more meaningful learning experiences. Pre-GED instruction provides further study in the math, English, social studies, science and general-reading areas. The program provides the student with a basic foundation to take the General Education Development (GED) examination.

Open enrollment is maintained throughout the year and there is at least one literacy class in each county to ensure the opportunity to permit students to enter at any time.

Specialized classes are established at various locations in the service area. There is no fee for registration or for instructional materials. To enroll, call (800) 447.4091, ext. 4329, 4211 or 4262.

**ADULT BASIC SKILLS, GED PREPARATION AND ADULT HIGH SCHOOL**

Classes are offered on all levels from beginning reading to GED preparation. Classes are interactive and use adult learning techniques. Individualized instruction, open entry, multiple class locations and times make these classes customer friendly and facilitate student success. If you or someone you know needs to complete his education, call the SCC Center nearest you. All literacy classes are free. You can start classes at any time and do not need to wait for the beginning of a new semester.

Pathways to Success, part of the Basic Skills Program, allows eligible Basic Skill and Adult High School students to concurrently enroll in selected curriculum classes. Pathways to Success is designed to provide GED and Adult High School students with tools and resources necessary to persist and succeed in earning not only high school credential but also in developing academic and employability skills, and earning a credential valued by local and regional employers.

The Student Transitions Education Program is a collaborative effort of SCC and Jackson County Schools that encourages students who may have otherwise dropped out to finish high school. Students in this program may concurrently enroll in college-curriculum courses while finishing high school. They may be eligible to earn an SCC High School Diploma and a Jackson County Schools Alternative High School Diploma. Students in STEP's are eligible to enroll in college curriculum courses through the Basic Skills Plus and College and Career Promise Programs.

### **COMPENSATORY EDUCATION (CED)**

This program is designed for mentally challenged adults. The program is highly individualized and fosters a maximum level of independent living commensurate with personal ability. Instruction is offered in math, language, health, community living, consumer education and vocational education.

### **ENGLISH AS A SECOND LANGUAGE (ESL)**

Instructors teach individuals from foreign countries to speak, read, and write English. This program is designed for adults who want to learn English language skills to function effectively in an English-speaking environment. Classes are small, individual instruction is provided, and students work at their own pace. Classes are offered throughout the service area.

### **GENERAL EDUCATION DEVELOPMENT (GED)**

Southwestern Community College is an official General Education Development Testing Center. These tests cover five broad areas: writing, reading, math, social studies and science.

Individuals receiving a total passing score of 2250, with no single test score below 410, are awarded a High School Equivalency Certificate by the North Carolina Department of Public Instruction. This certificate is generally accepted on the same basis as a high school diploma when making application for employment, seeking a job promotion or applying for admission into a college or university.

**Preparation:** An individual wishing to take the GED Examination should come to SCC for an initial interview. He may select one of three ways to complete his preparation. Depending on the level of preparation necessary, he may choose to enroll in the Adult Basic Education program, High School Equivalency class or Developmental Studies.

**Testing:** In the event that any single test score or the total score is unsatisfactory, a retest may be taken after six month of further study.

**Test Sites:** At the time of application, a testing schedule will be given to the applicant. GED testing sites are located in Bryson City, Cashiers, Cherokee, Franklin and on Jackson Campus. For additional information call (828) 339.4486 or (800) 447.4091, ext. 4486, or visit [www.southwesterncc.edu](http://www.southwesterncc.edu).

### **INSTITUTE OF HERITAGE ARTS**

In response to the vision created by the Swain County Blue Ridge National Heritage Committee, Southwestern Community College partnered with the Swain County Economic Development Committee to develop a multi-phase implementation plan for a “crafts education center.” Launched in March 2006, the initial response to the Heritage Arts Institute has been remarkable. The Master Potter Certificate program is currently available at the SCC Swain Center.

#### **Courses:**

- Clay – Beginning Wheel, Intermediate Wheel, Handbuilding, Lidded Vessels, Joined Vessels, Distorted Vessel, Special Topics
- Ceramic Surfaces – Altering, Liquid Clays, Glaze Fabrication, Brushing, Trailing and Soft Stamps, Spraying
- Firing – Beginning Raku, Advanced Raku, Horsehair and Pit Firing, Wood Firing, Salt/Soda Firing
- Pottery Tool Making
- Clay Design – Special Studies
- Clay Business – Festival Planning, Execution and Participation, REAL, The Business of Art Seminars.

### **PUBLIC SAFETY TRAINING**

#### **Emergency Medical Services Training**

The EMS Continuing Education Department program currently offers classes that introduce new students to the world of emergency medical care through Basic Life Support Education. Completion of the Medical Responder and Emergency Medical Technician - Basic class will prepare the student for examination by the State of North Carolina for official certification. Once certified by the state, students will be prepared to fill the role of a basic medical responder on a Transport Unit or in a Fire Department as a first responder.

This department also offers a wide variety of classes geared to the Advanced Life Support Programs in the area. From initial introduction to Advanced Life Support in an Intermediate EMT class to developing classes for the ever-changing profession of Emergency Medical Science, Southwestern Community College has what you need to enhance your performance in the field.

Classes are offered at all SCC locations and at various times throughout the year. Please refer to the Continuing Education handout for a list of classes currently being offered. In order to ensure a place in class, you must preregister.

#### **Fire and Rescue Services Training**

Various courses are offered in cooperation with individual fire and rescue departments in the service area. Specific courses are designed to increase the firefighter’s and rescuer’s technical knowledge and improve his or her skills in fire ground operation. Classes may be offered according to the needs of each department.

In addition, SCC offers the nationally-recognized firefighter certification program and the rescue certification program. The training curriculum is based on the 1992 edition of NFPA 1001 which was adopted by the North Carolina Fire and Rescue Commission in July 1993 and implemented in January 1994. The College also offers training to prepare individuals to work as a Wildland Firefighter.

The Fire and Rescue Training Facility is located adjacent to the Public Safety Training Complex. This 4,100 square-foot, three-story live burn building is designated for a variety of

training exercises. Both fire and smoke exercises can be conducted in and on the structure and rescue operations can be simulated throughout the building. SCC will coordinate training for firefighters and rescue personnel in the region and will be responsible for the scheduling of this facility.

### **Law Enforcement Training**

Southwestern Community College provides the North Carolina Basic Law Enforcement Training program mandated by the NC Criminal Justice Education and Training Standards Commission and by the NC Sheriff's Education and Training Standards Commission. This program will provide the student with the knowledge and minimum requirements needed for certification by the Criminal Justice Commission and/or the Sheriff's Commission. The college also offers in-service and advanced speciality training to law enforcement agencies.

In addition, a basic training program designed to prepare Seasonal Park Rangers to perform law enforcement in areas administered by the National Park Service is offered. Classes meet for a ten-week period from 8 a.m. until 6 p.m. Monday through Friday with some evening and Saturday sessions. Graduates of the program are eligible to receive a type II law enforcement commission as a Seasonal Ranger with the National Park Service at one of the more than 300 parks, monuments and other facilities of the Park Service in the contiguous 48 states, Alaska, Hawaii, Puerto Rico, the Virgin Islands and Guam.

The college offers the N.C. Detention Officer Certification program mandated by the North Carolina Sheriff's Education and Training Standards Commission. Other state certification programs offered include: General Instructor Training, Telecommunicator Training, Radar Training, Standardized Field Sobriety and others.

Also offered are training programs which lead to the following professional certification programs:

Law Enforcement Officers' Professional Certification Program:

- Basic, Intermediate and Advanced Certification

Criminal Justice Officers' Professional Certification Program:

- Basic, Intermediate and Advanced Certification

Professional Certificate Program for Sheriffs and Deputy Sheriffs:

- Basic, Intermediate and Advanced Certification

Professional Certificate Program for Detention Officers:

- Basic, Intermediate and Advanced Certification

To be eligible for one or more of the above programs, entry level qualifications must first be met. Awards are based on a formula, combining formal education, training and actual experience as an officer/professional in the field. Certification is awarded by the N.C. Criminal Justice Education and Training Standards Commission or the N.C. Sheriff's Education and Training Standards Commission.

Various specialized law enforcement courses are conducted in the area served by Southwestern Community College including: communications, courtroom procedures, criminal investigation, criminal law and procedure, defensive tactics, firearms training, first aid, detention and narcotics and dangerous drugs.

See the SCC, Education Programs, PSTC, website for additional information and schedules of training at [www.southwesterncc.edu/pubsafety/index.htm](http://www.southwesterncc.edu/pubsafety/index.htm).

## SUCCESS STORY

**CreatingSuccess**  
NC Community Colleges  
Hope • Opportunity • Jobs

### Kim Lambert

Chief Executive Officer  
Vocational Opportunities  
of Cherokee



Kim Lambert, an enrolled member of the Eastern Band of Cherokee Indians, chose Southwestern Community College (SCC) because she was a non-traditional student and wanted to go to a college that provided individualized attention.

It worked for her the first time so she tried it again.

“I enrolled earlier but took time off to have two children and then I went back and graduated with a business administration degree. The positive experience that I’ve had at SCC carried over to my children, who have also attended SCC. My daughter is now planning on doing dual enrollment and earning a college transfer degree before she finishes high school,” she said.

“You get a great education at SCC”, Kim tells other tribal members. “The instructors are helpful and want you to succeed,” she said, adding that the cost is much less than the first two years of a four-year university.

“SCC gave me a firm foundation and I use the skills I learned at SCC on my job every day,” said this CEO of Vocational Opportunities of Cherokee.

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## CONTINUING EDUCATION

- General Information
- Admission Eligibility
- Cost
- Course Repetition
- Computer Training
- Community Service
- Healthcare Professions Training
- Human Resources Development
- Online Programs
- Professional Licensure and Certification
- Teacher Certificate Renewal
- Refund Policy
- Pre-Registration/Enrollment

### GENERAL INFORMATION

Continuing Education is committed to the concept of life-long learning. It is the purpose of Southwestern Community College to provide an opportunity for citizens to develop their fullest potential in whatever vocational, intellectual or cultural areas they desire. It is also the purpose of Southwestern Community College to offer low-cost educational opportunities to any adult regardless of educational background.

Continuing education courses are offered at various locations throughout Jackson, Macon and Swain counties and the Qualla Boundary. Continuing Education welcomes requests for courses and suggestions for providing improved services to the three-county area.

Extension courses offered through Continuing Education are designed to prepare students for entry into an occupation, to upgrade the occupational competency of already employed individuals or to work toward self-improvement.

These extension courses do not earn academic credits that are recognized in a degree or diploma program; however, a certificate is sometimes awarded upon successful completion of a course or series of courses. For some courses, Continuing Education Units (CEUs) are awarded. One CEU may be given for each ten contact hours of participation in an organized Continuing Education class.

### ADMISSION ELIGIBILITY

Admission is open to individuals who are at least 18 years-old and who are not enrolled in public school. Sixteen- to 18-year-olds may enroll in some courses, when space is available and pending proper permission. Students under 18 years of age may enroll in summer classes designed specifically for the younger student. Only individuals officially enrolled may attend class.

### COST

The registration fee for continuing education classes is based on the length of the course. Fees are as follows:

0-24 hours.....	\$65
25-50 hours .....	\$120
Over 51 hours .....	\$175

Some classes are contracted on a self-supporting basis and are not fee exempt for any group of individuals. Tuition shall also be waived for up to 96 contact hours of non-credit instruction, occupational, per academic semester for senior citizens age 65 or older who are qualified as legal residents of North Carolina. Academic semesters are defined consistent with the academic periods defined by 23 NCAC 02D.0327(a)(1): Spring period: January 1- May 15; Summer period: May 16-August 15; Fall period: August 15-December 31. For the purposes of calculating the waiver, contact hours are categorized into academic semesters based on the date the course starts. (Note: This may differ from the academic semester for which the contact hours are reported.)

Other Fees: Computer Use and Technology Fee (per Occupational computer class) \$5 per class. Public Safety classes are fee exempt.

### COURSE REPETITION

Effective Sept. 1, 1993, the North Carolina Community College System established a Course Repetition Policy requiring students, including senior citizens, who take occupational extension courses more than twice within a five-year period, to pay the full cost of the course. This provision is waived if course repetition is required by standards governing the certification or licensing program in which the student is enrolled; therefore, EMS, fire, law enforcement and

rescue personnel are exempt from the repetition policy as long as classes taken are job-related and subject to the certification or licensing provisions.

Students may enroll in community service courses as many times as necessary to accomplish their individual educational/training goals, provided they continue to show progress, do not prohibit others from participating, are willing to pay fees and do not violate policies of the North Carolina Community College System.

### **COMPUTER TRAINING**

A variety of prescheduled and customized computer courses are available in both basic computer literacy and advanced topics. For additional information, visit [www.southwesterncc.edu](http://www.southwesterncc.edu).

### **COMMUNITY SERVICE**

Through this program, SCC conducts single courses, each complete in itself, that focus on an individual's personal or leisure needs rather than occupational or professional employment. Topics for these non-credit courses include arts and crafts, personal enrichment, dance, language, wellness, patient education, plus many more. Many courses are developed after requests from the community.

### **HEALTHCARE PROFESSIONS TRAINING**

The College provides training for Nurse Aide I, Nurse Aide II, Nurse Aide I Refresher and for Medication Aide. Upon successful completion of the Nurse Aide I program, graduates are eligible to sit for the State Competency exams. Upon successfully passing the exam, they can work under the direction of a licensed RN performing basic nursing techniques for clients who are sick or who have chronic health problems.

The Medication Aide program covers the six rights of medication administration of non-licensed personnel. Upon completion, students should be able to take the competency exam and demonstrate skills necessary to qualify for listing on the North Carolina Medication Aide Registry. Students entering this program must be on the Nurse Aide Registry and have a current CPR certification.

### **HUMAN RESOURCE DEVELOPMENT**

SCC is committed to increasing employment of the citizens of our community. The Human Resource Development program provides skill assessment services, employability skills training, and career development counseling to unemployed and underemployed adults. Contact your local SCC Center or the local Job Link Office.

### **ONLINE PROGRAMS**

Over 300 online continuing education courses are offered monthly. These include internet, webpage design, web graphics and multi-media, web and computer programming, basic computer literacy, computer applications, graphic design, computer troubleshooting and networking, database management, languages, writing and publishing, grant writing and non-profit management, start your own business, sales and marketing, accounting, business administration, and much more. For additional information or to register for a class, visit the website at [www.ed2go.com/scc](http://www.ed2go.com/scc) or visit [www.southwesterncc.edu](http://www.southwesterncc.edu).



**PROFESSIONAL LICENSURE AND CERTIFICATION**

Training offered in this area serves individuals preparing to take state licensing exams and professionals seeking to renew their current North Carolina license or certification. Groups served by this training include Real Estate Brokers, Real Estate Appraisers, Code Enforcement Officials, General Contractors, Electrical Contractors, Plumbing Contractors, Cosmetologists, Independent Auto Dealers, NC Auto Safety Inspection Mechanics, Tanning Bed Operators, Licensed Structural Pest Control Operators and Notary Public.

**TEACHER CERTIFICATE RENEWAL**

In addition to effective teacher training, mentor training and performance evaluation, a number of courses are offered for public education teachers to meet their continuing education needs.

**REFUND POLICY**

Registration fee refunds are granted only under the following circumstances:

- For classes that are scheduled to meet four times or less, a 75 percent refund shall be made upon the request of the student if the student officially withdraws from the class(es) prior to or on the first day of class(es).
- For classes that are scheduled to meet five or more times, a 75 percent refund shall be made upon the request of the student if the student officially withdraws from the class(es) prior to or on the official 10 percent point of the class(es).

Requests for refunds will not be considered after the 10 percent point.

For contact hour classes, refunds must be requested within 10 calendar days from the first day of class. Self-supporting classes are not eligible for refunds.

**PRE-REGISTRATION/ENROLLMENT**

Pre-registration is essential on or before the date designated on course announcements or quarterly schedules. Students may preregister by calling the closest continuing education office:

Cashiers Center.....	(828) 339.4497
Cherokee Center.....	(828) 497.7233 FAX: (828) 497.7135
Jackson Campus.....	(828) 339.4426 (800) 447.4091, ext. 4426 FAX: (828) 339.4495
Macon Annex .....	(828) 306.7034 FAX: (828) 349.2603
Jerry Sutton Public Safety Training Center.....	(828) 306.7041 FAX: (828) 369.2428
Swain Center .....	(828) 366.2000 FAX: (828) 488.2982

**BUSINESS & INDUSTRY CENTER**

The Customized Training Program of the Southwestern Community College supports the economic development efforts of Jackson, Macon and Swain Counties and the Qualla Boundary by providing education and training opportunities for eligible businesses and industries. Amended in 2008, this new program integrates the New and Expanding Industry Training Program, the former Focused Industry Training Program, and the Customized Industry Training Program to more effectively respond to business and industry needs. The Customized Training Program offers programs and training services to assist new and existing business and industry to remain productive, profitable, and within the State.

The program was developed in recognition of the fact that one of the most important factors for a business or industry considering locating, expanding, or remaining in North Carolina is the ability of the State to ensure the presence of a well-trained workforce. The program is designed to react quickly to the needs of businesses and to respect the confidential nature of proprietary processes and information within those businesses.

For more information, please visit [www.southwesterncc.edu/content/industry-training](http://www.southwesterncc.edu/content/industry-training).

**SMALL BUSINESS CENTER**

Entrepreneurs, both currently in business and contemplating starting a business, have found the Small Business Center of great value. No-fee services provided include counseling and assistance with business plans, marketing, production and accounting controls, and a variety of other business issues. Additionally, the Small Business Center regularly schedules business seminars offered for a nominal fee and maintains a host of reference materials for use by business owners. Seminars are offered on a scheduled and customizes basis in the three county area.

For more information, visit [www.southwesterncc.edu](http://www.southwesterncc.edu).



“Learning comes first at Southwestern Community College. Our ranking as one of the Top 10 Community Colleges in the nation is based on our students’ engagement in activities that lead to learning and success in college. Those activities include active and collaborative learning, the effort students put into their classes, the level of challenge of the academic work, the interactions between students and instructors, and the support we provide for learners. The quality of those experiences reflects the dedication of our faculty and staff to the pursuit of excellence in teaching and learning.

You will find a unique connection between instructors and students at SCC; they care about your success. So it comes as no surprise that our instructors have described what they value in excellent teaching. These values underscore our commitment to students and serve as reminders of what you can expect in your classes at SCC.”

Thom Brooks  
SCC Vice President for Instruction and Student Services

### Values for Teaching Excellence

- Inspires students to become independent learners
- Promotes the development of critical-thinking skills
- Respects each student as an individual
- Fosters a sense of cooperation and community in and out of the classroom
- Recognizes the use of technology to enhance the teaching-learning process
- Engages students in learning for practical use and personal growth
- Provides an innovative and accessible educational experience
- Demonstrates an excitement about teaching and learning
- Maintains high standards in a caring, supportive environment

“A teacher affects eternity; he can never tell where his influence stops.”

Henry Brooks Adams

## KEYS FOR CLASSROOM SUCCESS

Students demonstrate engagement in the learning process.

To demonstrate engagement in the learning process, students should:

- Take personal responsibility for and be actively involved in the learning process
- Be present and prepared for class
- Bring appropriate materials to class
- Complete assignments on time
- Be attentive and participate in all class activities
- Engage and collaborate with peers through study groups and the sharing of personal contact information
- Ask questions when appropriate
- Ask for help when needed

Students demonstrate appropriate attendance and punctuality.

To demonstrate appropriate attendance and punctuality, students should:

- Attend all meetings of each class
- Be on time and ready to work
- Remain in class for the duration of the period, except in cases of emergency or approved class breaks
- Know and adhere to instructors' attendance policies

Students demonstrate respect for self and others in the learning environment.

To demonstrate respect for self and others, students should:

- Demonstrate respect for instructors and classmates by talking when appropriate
- Keep discussions relevant to class material
- Demonstrate appropriate classroom etiquette
- Observe college and classroom policies regarding cell phone use, smoking, parking, eating, etc.
- Turn off all personal communication devices, unless appropriate to the class activities or approved by the instructor
- Respect classroom equipment

Students demonstrate responsibility, accountability, and professionalism.

To demonstrate responsibility, accountability, and professionalism, students should:

- Focus on learning
- Demonstrate self-motivation
- Not obsess about grades
- Do their own work
- Keep an open mind
- Meet class deadlines
- Demonstrate ethical behavior
- Treat the classroom like a job
- Know and follow the SCC student code of conduct
- Use good personal hygiene
- Dress appropriately

Students demonstrate effective use of learning resources.

To demonstrate effective use of learning resources, students should access the following as needed:

- Class Instructor
- Learning Assistance Center (LAC)
- Smarthinking.com
- Tutoring
- Library
- Workshops
- Advisor
- Peers
- Web Resources



## WRITING ACROSS THE CURRICULUM

Goal of the Writing Across the Curriculum (WAC) QEP:  
To improve and reinforce student writing skills across the curriculum through a two-fold approach: support of student writing using in-class workshops and support of faculty development through training sessions.

The WAC Coordinator offers student workshops on effective writing strategies including:

- Gathering, organizing, and evaluating materials for research-based papers and projects
- Paraphrasing, summarizing, and using direct quotations
- Citing sources in MLA, APA, and Chicago Style formats
- Plagiarism prevention
- Grammar and mechanics
- Editing and proofreading
- Vocabulary building and spelling
- College writing for ESL students
- Effectively using the LAC and/or Smarthinking



Our faculty members are the heart of the culture of writing at SCC. Each fall, the WAC program welcomes a new cohort of faculty members in a one-day seminar on the effective use of writing in the classroom.

For more information visit [www.southwesterncc.edu/WAC](http://www.southwesterncc.edu/WAC) or call (828) 339.4264.

## OCONALUFTEE INSTITUTE OF CULTURAL ARTS

### Fine Arts at the Oconaluftee Institute of Cultural Arts in Cherokee

Southwestern offers the Associate in Fine Arts (AFA) degree program in collaboration with the Oconaluftee Institute for Cultural Arts (OICA) in Cherokee. Southwestern's AFA program provides a thematic focus on Native American arts while providing students a well-rounded education in foundational visual art skills and an understanding of historic and contemporary artistic expressions worldwide. The OICA facility includes art studios, classrooms, offices, and exhibition space. OICA hosts numerous art shows and workshops for College students and the community.

## SUCCESS STORY

**Creating Success**  
 NC Community Colleges  
 Hope • Opportunity • Jobs

### Rachel “Moe” Runyan

Nurse, Northeast Georgia  
 Medical Center



Rachel “Moe” Runyan, one of Southwestern Community College’s first alternate program nursing graduates, was among seven nurses honored at the Masters in the Art of Nursing ceremony at Brenau University in Georgia.

The nurses were nominated by their peers and selected based on a list of criteria, including passion, respect, confidence and the ability to connect with people.

Moe said she recalled SCC nursing instructor Ellen Heim “telling us on the first day of school that we could decide what kind of nurses we wanted to be. I thank her for all she did to help me get where I am. I could have never imagined the incredible career I have been blessed to have so far.”

Currently a “swoop” nurse at Northeast Georgia Medical Center, Moe floats the entire hospital and covers for all the other nurses.

Several factors played into her decision to pursue a career in nursing. “I really loved helping people and I wanted a good job that so I could support myself,” said Moe, who is from Franklin.

“Moe is an incredible example of the type of excellence we support here at SCC,” said instructor Ellen Heim. “She once said to me that she had never been pushed so hard by an instructor, but that I was with her, helping her every step of the way—that’s been one of my more cherished evaluations in teaching.”

# ACADEMIC PROGRAMS OF STUDY

- Program Titles
- Programs of Study
- Program/Course Key
- Performance Measures and Standards





Accounting - A25100, C25100, C25100CP*-----	AAS, Certificate
Advertising & Graphic Design - A30100-----	AAS
Air Conditioning, Heating & Refrigeration Technology - C35100, C35100CP*-----	Certificate
Air Conditioning, Heating & Refrigeration Technology - D35100-----	Diploma
Associate in Arts - College Transfer - A10100, A10100HS*, D10100-----	AA, Diploma
Associate in Fine Arts - A10200-----	AFA
Associate in General Education - A10300-----	AGE
Associate in Science - A10400-----	AS
Automotive Systems Technology - A60160, C60160, C60160CP*-----	AAS, Certificate
Automotive Systems Technology - D60160-----	Diploma
Biotechnology - A20100-----	AAS
Business Administration - A25120, C25120, C25120CP*-----	AAS, Certificate
Business Administration - Electronic Commerce - A2512I, C2512I, C2512ICP*--	AAS, Certificate
Business Administration - Entrepreneurship - A25120-----	AAS
Business Administration - Office Administration - A2512001, C2512001, C2512001P*--	AAS, Certificate
Civil Engineering Technology - A40140-----	AAS
College Transfer Pathway - Business & Economics - P1012B*-----	Pathway
College Transfer Pathway - Engineering & Mathematics - P1042B*-----	Pathway
College Transfer Pathway - Humanities & Social Sciences - P1012A*-----	Pathway
College Transfer Pathway - Life & Health Sciences - P1042A*-----	Pathway
Computer Engineering Technology - A40160-----	AAS
Computer Information Technology - A25260, C25260, C25260CP*-----	AAS, Certificate
Cosmetology - A55140, D55140, C55140, C55140CP*-----	AAS, Diploma, Certificate
Criminal Justice Technology - A55180-----	AAS
Criminal Justice Technology/Latent Evidence - A5518A, C5518A-----	AAS, Certificate
Culinary Arts - A55150, C55150, C55150CP*-----	AAS, Certificate
Cyber Crime Technology - A55210-----	AAS
Early Childhood Education - A55220, C55220, C55220CP*-----	AAS, Certificate
Electrical/Electronics Technology - D35220, C35220, C35220CP*-----	Diploma, Certificate
Electronics Engineering Technology - A40200-----	AAS
Emergency Medical Science - A45340, D45340, C45340, C45340CP*-----	AAS, Diploma
Environmental Science Technology - A20140-----	AAS
General Occupational Technology - A55280-----	AAS
Health Informatics - C453601-----	Certificate
Health Information Technology - A45360-----	AAS
Health Information Technology/Medical Coding - D45360-----	Diploma
Human Services Technology - A45380-----	AAS
Human Services Technology/Substance Abuse Concentration - A4538E, C4538E-----	AAS, Certificate
Infant/Toddler Care - C55290-----	Certificate
Manicuring/Nail Technology - C55400-----	Certificate
Medical Assisting - A45400, C45400, C45400CP*-----	AAS
Medical Laboratory Technology - A45420-----	AAS
Medical Office Administration - A25310-----	AAS
Medical Sonography - A45440-----	AAS

Networking Technology - A25340, D25340-----	AAS, Diploma
Networking Technology/CISCO Certificate - C25340C, C25340CP* -----	Certificate
Nursing - Associate Degree - A45110-----	AAS
Nursing Assistant - C45110, C45110CP* -----	Certificate
Occupational Education Associate - A55320, D55320, C55320-----	AAS, Diploma, Certificate
Outdoor Leadership - A55330, C55330-----	AAS, Certificate
Outdoor Leadership - Wilderness Emergency Medicine - C553302 -----	Certificate
Outdoor Leadership - Wilderness Therapy - C553301 -----	Certificate
Paralegal Technology - A25380-----	AAS
Phlebotomy - C45600-----	Certificate
Physical Therapist Assistant - A45620-----	AAS
Pre-Major Business Administration, Accounting, Economics, Finance & Marketing - A1010B-----	AA
Pre-Major Criminal Justice - A1010D-----	AA
Pre-Major Elementary Education - A1010R -----	AA
Pre-Major English Education - A1010F-----	AA
Pre-Major History - A1010H-----	AA
Pre-Major Middle Grades Education - A1011A -----	AA
Pre-Major Nursing - A1010I-----	AA
Pre-Major Physical Education - A1010J-----	AA
Pre-Major Political Science - A1010K -----	AA
Pre-Major Psychology - A1010L-----	AA
Pre-Major Social Science Secondary Education - A1010M-----	AA
Pre-Major Sociology - A1010N-----	AA
Pre-Major Special Education - A1010Z-----	AA
Radiography - A45700-----	AAS
Real Estate Licensing - C25480-----	Certificate
Respiratory Therapy - A45720 -----	AAS
School Age Education - A55440, C55440, C55440CP* -----	AAS, Certificate
Therapeutic Massage - D45750 -----	Diploma
Trades:	
Carpentry - D35180, C35180*-----	Diploma, Certificate
Welding Technology - C50420, C50420CP* -----	Certificate
Web Technologies - A25290-----	AAS
Web Technologies/Web Design - C25290D, C25290DP* -----	Certificate
Web Technologies/Mobile Development - C25290M-----	Certificate

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

These programs are offered at various times during the day, evening, online and/or weekend. Check with your advisor about scheduling options.

**NOTE:** SCC reserves the right to revise programs of study as necessary. All changes will be updated on our website.

The Accounting curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the “language of business,” accountants assemble and analyze, process, and communicate essential information about financial operations.

In addition to course work in accounting principles, theories, and practice, students will study business law, finance, management, and economics. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies. With work experience and additional education, an individual may advance in the accounting profession.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25100

#### FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3

Choose one of the following:

MAT	140	Survey of Mathematics	2	2	0	3
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or

MAT	151	Statistics	3	0	0	3
MAT	151A	Statistics Lab	0	2	0	1
Totals			14-15	6	0	17-18

#### SPRING SEMESTER 1

ACC	121	Principles of Managerial Accounting	3	2	0	4
ACC	150	Accounting Software Applications	1	2	0	2
CTS	130	Spreadsheet	2	2	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

Choose one of the following:

ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
Totals			12	6	0	15

#### SUMMER SEMESTER

***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
Totals			9	0	0	9

#### FALL SEMESTER 2

ACC	129	Individual Income Taxes	2	2	0	3
ACC	220	Intermediate Accounting I	3	2	0	4
ACC	240	Gov. & Not-for-Profit Accounting	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
Totals			14	4	0	16

**SPRING SEMESTER 2**

ACC	221	Intermediate Accounting II	3	2	0	4
ACC	225	Cost Accounting	3	0	0	3
ACC	227	Practices in Accounting	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
		Totals	12	2	0	13

Total Semester Hour Credits: 70-71

**CERTIFICATE C25100 & C25100CP\***

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/accounting-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ACC	129	Individual Income Taxes	2	2	0	3
ACC	150	Accounting Software Applications	1	2	0	2
CIS	110	Introduction to Computers	2	2	0	3
		Totals	11	10	0	16

Total Semester Hour Credits: 16

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

**Diania McRae, Program Coordinator**

d\_mcr@southwesterncc.edu

(828) 339.4275 or (800) 447.4091, ext. 4275

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A30100

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
ENG	111	Expository Writing	3	0	0	3
GRD	121	Drawing Fundamentals I	1	3	0	2
GRD	141	Graphic Design I	2	4	0	4
GRD	145	Design Applications I	0	3	0	1
GRD	151	Computer Design Basics	1	4	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	11	14	0	17

#### SPRING SEMESTER 1

ENG	114	Professional Research and Reporting	3	0	0	3
GRD	110	Typography I	2	2	0	3
GRD	142	Graphic Design II	2	4	0	4
GRD	152	Computer Design Tech I	1	4	0	3
GRD	230	Technical Illustration	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	9	13	0	15

#### SUMMER SEMESTER

GRD	167	Photographic Imaging I	1	4	0	3
PSY	150	General Psychology	3	0	0	3
<u>Choose one of the following:</u>						
MAT	115	Mathematical Models	2	2	0	3
MAT	140	Survey of Mathematics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	6-7	4-6	0	9

#### FALL SEMESTER 2

GRA	121	Graphic Arts I	2	4	0	4
GRD	131	Illustration I	1	3	0	2
GRD	153	Computer Design Tech II	1	4	0	3
GRD	241	Graphic Design III	2	4	0	4
GRD	281	Design of Advertising	2	0	0	2
<u>Choose one of the following:</u>						
ART	264	Digital Photography I	1	4	0	3
GRD	168	Photographic Imaging II	<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>
		Totals	9	19	0	18

**SPRING SEMESTER 2**

GRA	220	Industry Survey	1	2	0	2
GRD	210	Airbrush I	1	2	0	2
GRD	242	Graphic Design IV	2	4	0	4
GRD	247	Design Applications IV	0	3	0	1
GRD	280	Portfolio Design	2	4	0	4
<u>Choose one of the following:</u>						
MKT	123	Fundamentals of Selling	3	0	0	3
WEB	120	Introduction to Internet Multimedia	2	2	0	3
<u>Choose one of the following:</u>						
COE	111	Co-op Work Experience 1	0	0	10	1
GRD	146	Design Applications II	0	3	0	1
		Totals	8-9	15-20	0-10	17

Total Semester Hour Credits: 76

**FACULTY****Robert Keeling, Program Coordinator**

bkeeling@southwesterncc.edu

(828) 339.4317 or (800) 447.4091, ext. 4317

**Scott Clontz**

s\_clontz@southwesterncc.edu

(828) 339.4233 or (800) 447.4091, ext. 4233

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

### DIPLOMA D35100

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/air-conditioning-heating-refrigeration-diploma>

#### REQUIRED COURSES:

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
AHR	110	Intro to Refrigeration	2	6	0	5
AHR	112	Heating Technology	2	4	0	4
AHR	113	Comfort Cooling	2	4	0	4
AHR	114	Heat Pump Technology	2	4	0	4
AHR	120	HVACR Maintenance	1	0	3	2
AHR	210	Residential Building Code	1	2	0	2
AHR	211	Residential System Design	2	2	0	3
ELC	111	Intro to Electricity	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	101	Applied Mathematics I	2	2	0	3
		Totals	19	26	3	33

#### CHOOSE 6 CREDITS FROM THE FOLLOWING COURSES:

AHR	212	Advanced Comfort Systems	2	6	0	4
CIS	110	Introduction to Computers	2	2	0	3
CIS	111	Basic PC Literacy	1	2	0	2
COE	111	Co-op Work Experience I	0	0	10	1
COE	112	Co-op Work Experience I	0	0	20	2
COE	114	Co-op Work Experience I	0	0	40	4
ELC	112	DC/AC Electricity	3	6	0	5
MAT	115	Mathematical Models	2	2	0	3
WLD	110	Cutting Processes	1	3	0	2

Total Semester Hour Credits: 39

**CERTIFICATE C35100 & C35100CP\*****FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
AHR	110	Intro to Refrigeration	2	6	0	5
AHR	120	HVACR Maintenance	1	0	3	2
ELC	111	Intro to Electricity	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	5	8	3	10

**SPRING SEMESTER 1**

AHR	112	Heating Technology	2	4	0	4
AHR	113	Comfort Cooling	<u>2</u>	<u>4</u>	<u>0</u>	<u>4</u>
		Totals	4	8	0	8

Total Semester Hour Credits: 18

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**ADVISOR**

**Scott Baker**

scottb@southwesterncc.edu

(828) 339.4249 or (800) 447.4091, ext. 4249



Through an agreement with the University of North Carolina system, SCC students can earn up to 65 hours worth of credit that will transfer to any public university and 50 private colleges in the state. There are two structured transfer options: completion of the Associate in Arts degree ensures students' transfer with junior status into most majors; completion of the 44-hour general education core ensures transfer with sophomore status at the university. Students should become familiar with the entrance and program requirements at the university they plan to transfer to in order to guide their course selections at SCC. Students who wish to transfer before completing the AA degree or the 44-hour core should consult closely with the receiving institutions for course-by-course equivalencies.

### ASSOCIATE IN ARTS (AA) A10100 & A10100HS\* COURSE AND HOUR REQUIREMENTS

English/Composition .....	6
Humanities/Fine Arts .....	12
Social/Behavioral Science.....	12
Natural Science .....	8
Mathematics .....	6
Physical Education/Health .....	3
Other Required Hours.....	<u>18</u>
TOTAL .....	<u>65</u>

\* This degree is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

#### ENGLISH/COMPOSITION - Six Semester Hour Credits required

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Expository Writing	3	0	0	3
<u>Choose one of the following:</u>						
ENG	112	Argument-Based Research	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3

#### HUMANITIES/FINE ARTS - Twelve Semester Hour Credits required

Choose at least one Literature course

ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3

Choose from at least two different discipline areas - 9 hours

ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
COM	110*	Introduction to Communication	3	0	0	3
COM	140	Intro. to Intercultural Communication	3	0	0	3
COM	231*	Public Speaking	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	121	The Nature of America	3	0	0	3

Prefix	Number	Title	Class	Lab	Clinical	Credit
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
MUS	110	Music Appreciation	3	0	0	3
PHI	210	History of Philosophy	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3

\* Students may not apply both COM 110 and COM 231 toward completion of Arts & Sciences requirements.

### SOCIAL/BEHAVIORAL SCIENCE - Twelve Semester Hour Credits required

Choose at least one History course

HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	115	Introduction to Global History	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3

Choose from at least two different discipline areas - 9 hours

ANT	210	General Anthropology	3	0	0	3
ANT	220	Cultural Anthropology	3	0	0	3
ANT	221	Comparative Cultures	3	0	0	3
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Prin. of Microeconomics	3	0	0	3
ECO	252	Prin. of Macroeconomics	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
POL	120	American Government	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psych	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3

### NATURAL SCIENCE - Eight Semester Hour Credits required

BIO	110*	Principles of Biology	3	3	0	4
BIO	111*	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environ. Biology Lab	0	3	0	1
CHM	131	Intro. to Chemistry	3	0	0	3
CHM	131A	Intro. to Chemistry Lab	0	3	0	1
CHM	132	Organic & Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4

\*Students may not apply both BIO 110 and BIO 111 toward completion of Arts and Sciences requirements.

#### **MATHEMATICS - Six Semester Hour Credits required**

MAT	140	Survey of Mathematics	3	0	0	3
MAT	141	Mathematical Concepts I	3	0	0	3
MAT	142	Mathematical Concepts II	3	0	0	3
MAT	151	Statistics I	3	0	0	3
MAT	161	College Algebra	3	0	0	3
MAT	162	College Trigonometry	3	0	0	3
MAT	165	Finite Mathematics	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	175	Precalculus	4	0	0	4
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4

#### **PHYSICAL EDUCATION/HEALTH - Choose Three Semester Hour Credits**

HEA	110	Personal Health/Wellness	3	0	0	3
PED	110	Fit and Well for Life	1	2	0	2
PED	111	Physical Fitness I	0	3	0	1
PED	117	Weight Training I	0	3	0	1
PED	118	Weight Training II	0	3	0	1
PED	120	Walking for Fitness	0	3	0	1
PED	121	Walk, Jog, Run	0	3	0	1
PED	122	Yoga I	0	2	0	1
PED	123	Yoga II	0	2	0	1
PED	125	Self-Defense-Beginning	0	2	0	1
PED	128	Golf-Beginning	0	2	0	1
PED	130	Tennis-Beginning	0	2	0	1
PED	137	Badminton	0	2	0	1
PED	142	Lifetime Sports	0	2	0	1
PED	143	Volleyball-Beginning	0	2	0	1
PED	145	Basketball-Beginning	0	2	0	1
PED	162	Angling	0	2	0	1
PED	163	Kayaking - Basic	0	2	0	1
PED	169	Orienteering	0	2	0	1
PED	170	Backpacking	0	2	0	1
PED	171	Nature Hiking	0	2	0	1
PED	172	Outdoor Living	1	2	0	2
PED	174	Wilderness Pursuits	0	2	0	1
PED	186	Dancing for Fitness	0	2	0	1
PED	210	Team Sports	0	3	0	1
PED	211	New Games	0	2	0	1

**REQUIRED**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1

**Choose Seventeen Additional SHC**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	115	Success & Study Skills	0	2	0	1
ACA	122	College Transfer Success	1	0	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	210	General Anthropology	3	0	0	3
ANT	220	Cultural Anthropology	3	0	0	3
ANT	221	Comparative Cultures	3	0	0	3
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	121	Two-Dimensional Design	0	6	0	3
ART	122	Three-Dimensional Design	0	6	0	3
ART	131	Drawing I	0	6	0	3
ART	132	Drawing II	0	6	0	3
ART	231	Printmaking I	0	6	0	3
ART	232	Printmaking II	0	6	0	3
ART	240	Painting I	0	6	0	3
ART	241	Painting II	0	6	0	3
ART	251	Weaving I	0	6	0	3
ART	252	Weaving II	0	6	0	3
ART	261	Photography I	0	6	0	3
ART	264	Digital Photography I	1	4	0	3
ART	281	Sculpture I	0	6	0	3
ART	282	Sculpture II	0	6	0	3
ART	283	Ceramics I	0	6	0	3
ART	284	Ceramics II	0	6	0	3
ART	288	Studio	0	6	0	3
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	5
BIO	168	Anatomy & Physiology I	3	3	0	4
BIO	169	Anatomy & Physiology II	3	3	0	4
BIO	175	General Microbiology	2	2	0	3
BIO	271	Pathophysiology	3	0	0	3
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Intro. to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	115	Introduction to Prog. & Logic	2	3	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	121	Law Enforcements Operations	3	0	0	3
CJC	141	Corrections	3	0	0	3
COM	110	Introduction to Communication	3	0	0	3
COM	140	Intro. to Intercultural Communication	3	0	0	3
COM	231	Public Speaking	3	0	0	3
CSC	134	C++ Programming	2	3	0	3
CSC	139	Visual BASIC Programming	2	3	0	3
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
EDU	216	Foundations of Education	3	2	0	4
ENG	112	Argument-Based Research	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Prof. Research & Reporting	3	0	0	3
ENG	125	Creative Writing I	3	0	0	3
ENG	126	Creative Writing II	3	0	0	3
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	251	Western World Lit. I	3	0	0	3
ENG	252	Western World Lit. II	3	0	0	3
ENG	272	Southern Literature	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	3
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	115	Introduction to Global History	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
HIS	145	The Second World War	3	0	0	3
HIS	233	History of Appalachia	3	0	0	3
HIS	237	The American Revolution	3	0	0	3
HIS	275	History of Terrorism	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	121	The Nature of America	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
HUM	170	The Holocaust	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
MAT	141	Mathematical Concepts I	3	0	0	3
MAT	142	Mathematical Concepts II	3	0	0	3
MAT	151	Statistics I	3	0	0	3
MAT	151A	Statistics I Lab	0	2	0	1
MAT	161	College Algebra	3	0	0	3

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
MAT	161A	College Algebra Lab	0	2	0	1
MAT	162	College Trigonometry	3	0	0	3
MAT	162A	College Trigonometry Lab	0	2	0	1
MAT	165	Finite Mathematics	3	0	0	3
MAT	165A	Finite Mathematics Lab	0	2	0	1
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trigonometry Lab	0	2	0	1
MAT	175	Precalculus	4	0	0	4
MAT	175A	Precalculus Lab	0	2	0	1
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
MAT	280	Linear Algebra	3	0	0	3
MUS	110	Music Appreciation	3	0	0	3
PED	110*	Fit and Well for Life	1	2	0	2
PED	111*	Physical Fitness I	0	3	0	1
PED	117*	Weight Training I	0	3	0	1
PED	118*	Weight Training II	0	3	0	1
PED	120*	Walking for Fitness	0	3	0	1
PED	121*	Walk, Jog, Run	0	3	0	1
PED	122*	Yoga I	0	2	0	1
PED	123*	Yoga II	0	2	0	1
PED	125*	Self-Defense-Beginning	0	2	0	1
PED	128*	Golf-Beginning	0	2	0	1
PED	130*	Tennis-Beginning	0	2	0	1
PED	137*	Badminton	0	2	0	1
PED	142*	Lifetime Sports	0	2	0	1
PED	143*	Volleyball-Beginning	0	2	0	1
PED	145*	Basketball-Beginning	0	2	0	1
PED	162*	Angling	0	2	0	1
PED	163*	Kayaking - Basic	0	2	0	1
PED	169*	Orienteering	0	2	0	1
PED	170*	Backpacking	0	2	0	1
PED	171*	Nature Hiking	0	2	0	1
PED	172*	Outdoor Living	1	2	0	2
PED	174*	Wilderness Pursuits	0	2	0	1
PED	186*	Dancing for Fitness	0	2	0	1
PED	210*	Team Sports	0	3	0	1
PED	211*	New Games	0	2	0	1
PHI	210	History of Philosophy	3	0	0	3
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4
POL	120	American Government	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	215	Positive Psychology	3	0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	259	Human Sexuality	3	0	0	3
PSY	275	Health Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3

REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	181	Spanish Lab I	0	2	0	1
SPA	182	Spanish Lab II	0	2	0	1
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3

\* Limited to 2 elective credit hours

The following courses can be used as electives only. They cannot be used toward the 44-hour core requirements: BIO 163, BIO 168, BIO 169, ENG 125, ENG 126, ENG 272, HIS 145, HIS 233, HIS 237, HIS 275, HUM 170, HUM 230, MAT 151A, MAT 171A, MAT 172A, MAT 175A, PSY 215, PSY 259, PSY 275, SPA 181 and SPA 182. Students can apply a maximum of two credit hours of ACA courses toward the completion of their degree.

**TOTAL SEMESTER HOURS: 65**

#### NOTES

If all requirements excluding electives, for the A.A. degree are met, the student has satisfied general education requirements for in-state public universities through the North Carolina Comprehensive Articulation Agreement. Consult with your advisor about courses directly applicable to your future major as you choose electives to complete the Associate in Arts degree. Be sure to consult the various pre-major degree options available through SCC.

Due to similarities in program requirements, students may not earn both the AA degree and an AA pre-major. Students who can document a specific reason for earning both degrees may appeal in writing to the Dean of Arts and Sciences.

**TRANSFER CORE DIPLOMA D10100**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/associate-arts-college-transfer-diploma>

Upon completion of the 44-hour general education core, students are eligible for the Transfer Core Diploma. The diploma may assist with university transfer since it signifies that the student has completed the general education core requirements per the North Carolina Comprehensive Articulation Agreement. Some students benefit from transferring upon completion of the core diploma, while others benefit from finishing the Associate in Arts (AA) degree by adding 17 hours of transferrable electives and Health/PE to the core. Consult with your SCC advisor and the university which you plan to attend regarding the best option for you.

English/Composition .....	6 credit hours
Humanities/Fine Arts .....	12 credit hours
(Including at least one literature course)	
Social/Behavioral Science.....	12 credit hours
(Including at least one history course)	
Natural Science.....	8 credit hours
Mathematics/Computer Science*.....	6 credit hours
Total .....	44 credit hours

\*CIS 110 is an option toward requirements in the transfer core diploma, but in the AA degree it counts as an elective. Students who pursue the AA degree are required to take two transferrable math courses.

**FACULTY: To contact the following instructors, call (828) 339.4000 in Sylva or (800) 447.4091 outside the area then dial their respective extensions.**

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The Associate in Fine Arts Degree is designed for students who intend to pursue a Bachelor of Arts in an art major or a Bachelor of Fine Arts degree at a senior institution.

The Associate of Fine Arts Degree Program at Southwestern Community College provides students an opportunity to experience a variety of studio topics with an emphasis on Native American art and cultural traditions.

Through an agreement with the University of North Carolina system, our students can earn up to 65 hours of course credit that will transfer to any public university in the state. Therefore, students will have the option to complete the AFA degree and transfer into a Bachelor of Fine Arts or Bachelor of Arts program. Coursework in the AFA program is aligned with the general education requirements of the state system. It is advised that all students in the program become familiar with the entrance and program requirements at the college or university they plan to transfer to before completing the AFA degree. Students should consult with their advisor to assure course equivalencies and track their academic progress.

### ASSOCIATE IN FINE ARTS DEGREE (AFA) A10200

#### FALL SEMESTER I

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
ART	114	Art History Survey I	3	0	0	3
ART	121	Two-Dimensional Design	0	6	0	3
ART	131	Drawing I	0	6	0	3
ANT	220	Cultural Anthropology	3	0	0	3
ENG	111	Expository Writing	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	10	12	0	16

#### SPRING SEMESTER I

ART	115	Art History Survey II	3	0	0	3
ART	122	Three-Dimensional Design	0	6	0	3
ART	251	Weaving I	0	6	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	113	Literature-Based Research	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	8	14	0	15

#### SUMMER SEMESTER

ART	288	Studio	0	6	0	3
MAT	140	Survey of Mathematics	3	0	0	3
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	6	6	0	9

#### FALL SEMESTER 2

ART	283	Ceramics I	0	6	0	3
BIO	111	General Biology I	3	3	0	4
ENG	131	Introduction to Literature	3	0	0	3
<u>Choose one of the following:</u>						
ART	231	Printmaking I	0	6	0	3
ART	240	Painting I	0	6	0	3
ART	281	Sculpture I	<u>0</u>	<u>6</u>	<u>0</u>	<u>3</u>
		Totals	6	15	0	13

**SPRING SEMESTER 2**

ART	252	Weaving II	0	6	0	3
COM	231	Public Speaking	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
<u>Choose one of the following:</u>						
ART	132	Drawing II	0	6	0	3
ART	232	Printmaking II	0	6	0	3
ART	241	Painting II	0	6	0	3
ART	282	Sculpture II	0	6	0	3
ART	284	Ceramics II	<u>0</u>	<u>6</u>	<u>0</u>	<u>3</u>
Totals			6	12	0	12

Total Semester Hour Credits: 65

**FACULTY**

**Jeffrey Marley, Program Coordinator**

[j\\_marley@southwesterncc.edu](mailto:j_marley@southwesterncc.edu)

(828) 497.3945

**Brian Kane**

[b\\_kane@southwesterncc.edu](mailto:b_kane@southwesterncc.edu)

(828) 497.3945

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development.

Course work includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers will be provided.

Through these skills, students will have a sound base for lifelong learning. Graduates are prepared for advancements within their field of interest and become better qualified for a wide range of employment opportunities.

## ASSOCIATE IN GENERAL EDUCATION (AGE) A10300

### I. GENERAL EDUCATION

**English – Six SHC required for AGE degree.**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Credit</u>
ENG	111	Expository Writing	3	0	3
ENG	113	Literature-Based Research	3	0	3
ENG	114	Professional Research and Reporting	3	0	3

**Humanities/Fine Arts – Three SHC required for AGE degree.**

***	***	Humanities Elective	3	0	3
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**Social/Behavioral Sciences – Three SHC required for AGE degree.**

***	***	Social Science Elective	3	0	3
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**Natural Sciences/Mathematics – Three SHC required for AGE degree.**

Mathematics

Select courses from the following discipline areas: college algebra, trigonometry, calculus, computer science, and statistics.

or

Natural Sciences

Select courses from the following discipline areas: astronomy, biology, chemistry, earth sciences, physics, and/or general science.

Total General Education Hour Credits: 15

### II. OTHER REQUIRED COURSES (49-50 SHC)

Other required hours include additional general education and professional courses.

A maximum of 7 SHC in health, physical education, college orientation, and/or study skills may be included as other required hours.

Total Curriculum Major Hour Credits: 49-50

Total Semester Hour Credits: 64-65

#### ADVISOR

Mitch Fischer, Dean of Health Sciences

mfischer@southwesterncc.edu

(828) 339.4331 or (800) 447.4091, ext. 4331

The Associate in Science degree is designed for students who plan to transfer to a university to pursue science, technology, engineering, or mathematics majors. Through the Comprehensive Articulation Agreement, the credits in the AS program will transfer to all 16 of the public universities and to 50 of the private colleges/universities in North Carolina. Students should become familiar with the admission and program requirements of the universities they plan to attend in order to guide their course selections at SCC. Students who wish to transfer before completing the AS degree should consult closely with the receiving institution for course-by-course equivalencies.

### ASSOCIATE IN SCIENCE (AS) A10400

#### English Composition (6 SHC)

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Expository Writing	3	0	0	3
ENG	113	Literature Based Research	3	0	0	3

#### Humanities/Fine Arts (9 SHC)

Choose one literature course:

ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	251	Western World Literature I	3	0	0	3
ENG	252	Western World Literature II	3	0	0	3

Choose two courses from two different discipline areas:

ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
COM	110	Intro to Communication	3	0	0	3
COM	140	Intro to Interpersonal Comm.	3	0	0	3
COM	231	Public Speaking	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	121	Nature of America	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Womens Studies	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
PHI	210	History of Philosophy	3	0	0	3
MUS	110	Music Appreciation	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Intro to Old Testament	3	0	0	3
REL	212	Intro to New Testament	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3

**Social/Behavioral Sciences (9 SHC)**

Choose one history course:

HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	115	Intro to Global History	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3

Choose two courses from two different disciplines:

ANT	210	General Anthropology	3	0	0	3
ANT	220	Cultural Anthropology	3	0	0	3
ANT	221	Comparative Cultures	3	0	0	3
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Prin. of Microeconomics	3	0	0	3
ECO	252	Prin. of Macroeconomics	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
POL	120	American Government	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3

**Natural Sciences/Mathematics (20 SHC)****Natural Sciences (8 SHC minimum)**

Choose a two course sequence:

BIO 111 General Biology I (3-3-0-4) AND BIO 112 General Biology II (3-3-0-4 SHC) or

CHM 151 General Chemistry I (3-3-4) AND CHM 152 General Chemistry II (3-3-4) or

PHY 151 College Physics I (3-2-4) AND PHY 152 College Physics II (3-2-4) or

PHY 251 General Physics II (3-3-4) AND PHY 252 General Physics II (3-3-4)

**Mathematics (6 SHC minimum)**

One course in mathematics at the precalculus algebra level or above is required; the other course may be higher level mathematics or may be selected from among other quantitative subjects, such as computer science and statistics.

Select two:

MAT	151	Statistics I	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	175	Precalculus	4	0	0	4
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
CIS	115	Intro to Prof & Logic	2	3	0	3

Six additional SHC must be selected from courses designated as Natural Sciences/Mathematics general education transfer courses.

BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4
MAT	151	Statistics I	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	175	Precalculus	4	0	0	4
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4

Required course:

ACA	111	College Student Success	1	0	0	1
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Additional Electives: 20 SHC

ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	210	General Anthropology	3	0	0	3
ANT	220	Cultural Anthropology	3	0	0	3
ANT	221	Comparative Cultures	3	0	0	3
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	121	Two-Dimensional Design	0	6	0	3
ART	122	Three-Dimensional Design	0	6	0	3
ART	131	Drawing I	0	6	0	3
ART	132	Drawing II	0	6	0	3
ART	231	Printmaking I	0	6	0	3
ART	232	Printmaking II	0	6	0	3
ART	240	Painting I	0	6	0	3
ART	241	Painting II	0	6	0	3
ART	251	Weaving I	0	6	0	3
ART	252	Weaving II	0	6	0	3
ART	261	Photography I	0	6	0	3
ART	264	Digital Photography I	1	4	0	3
ART	281	Sculpture I	0	6	0	3

ART	282	Sculpture II	0	6	0	3
ART	283	Ceramics I	0	6	0	3
ART	284	Ceramics II	0	6	0	3
ART	288	Studio	0	6	0	3
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	5
BIO	168	Anatomy & Physiology I	3	3	0	4
BIO	169	Anatomy & Physiology II	3	3	0	4
BIO	175	General Microbiology	2	2	0	3
BIO	271	Pathophysiology	3	0	0	3
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Prog. & Logic	2	3	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	3
CJC	141	Corrections	3	0	0	3
COM	110	Introduction to Communication	3	0	0	3
COM	140	Intro. to Intercultural Communication	3	0	0	3
COM	231	Public Speaking	3	0	0	3
CSC	134	C++ Programming	2	3	0	3
CSC	139	Visual BASIC Programming	2	3	0	3
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
EDU	216	Foundations of Education	3	2	0	4
ENG	112	Argument Based Research	3	0	0	3
ENG	114	Prof. Research & Reporting	3	0	0	3
ENG	125	Creative Writing I	3	0	0	3
ENG	126	Creative Writing II	3	0	0	3
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	251	Western World Lit. I	3	0	0	3
ENG	252	Western World Lit. II	3	0	0	3
ENG	272	Southern Literature	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3

HEA	110	Personal Health/Wellness	3	0	0	3
HIS	111	World Civilization I	3	0	0	3
HIS	112	World Civilization II	3	0	0	3
HIS	115	Introduction to Global History	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History	3	0	0	3
HIS	132	American History	3	0	0	3
HIS	145	The Second World War	3	0	0	3
HIS	233	History of Appalachia	3	0	0	3
HIS	237	The American Revolution	3	0	0	3
HIS	275	History of Terrorism	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	121	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
HUM	170	The Holocaust	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
MAT	141	Mathematical Concepts I	3	0	0	3
MAT	142	Mathematical Concepts II	3	0	0	3
MAT	151	Statistics I	3	0	0	3
MAT	151A	Statistics I Lab	0	2	0	1
MAT	161	College Algebra	3	0	0	3
MAT	161A	College Algebra Lab	0	2	0	1
MAT	162	College Trigonometry	3	0	0	3
MAT	162A	College Trigonometry Lab	0	2	0	1
MAT	165	Finite Mathematics	3	0	0	3
MAT	165A	Finite Mathematics Lab	0	2	0	1
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trigonometry Lab	0	2	0	1
MAT	175	Precalculus	4	0	0	4
MAT	175A	Precalculus Lab	0	2	0	1
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
MAT	280	Linear Algebra	3	0	0	3
MUS	110	Music Appreciation	3	0	0	3
PED	110*	Fit and Well for Life	1	2	0	2
PED	111*	Physical Fitness I	0	3	0	1
PED	117*	Weight Training	0	3	0	1
PED	118*	Weight Training II	0	3	0	1
PED	120*	Walking for Fitness	0	3	0	1
PED	121*	Walk, Jog, Run	0	3	0	1
PED	122*	Yoga I	0	2	0	1
PED	123*	Yoga II	0	2	0	1
PED	125*	Self Defense Beginning	0	2	0	1
PED	128*	Golf Beginning	0	2	0	1
PED	130*	Tennis Beginning	0	2	0	1



PED	137*	Badminton	0	2	0	1
PED	142*	Lifetime sports	0	2	0	1
PED	143*	Volleyball Beginning	0	2	0	1
PED	145*	Basketball Beginning	0	2	0	1
PED	162*	Angling	0	2	0	1
PED	163*	Kayaking Basic	0	2	0	1
PED	169*	Orienteering	0	2	0	1
PED	170*	Backpacking	0	2	0	1
PED	171*	Nature Hiking	0	2	0	1
PED	172*	Outdoor Living	1	2	0	2
PED	174*	Wilderness Pursuits	0	2	0	1
PED	186*	Dancing for Fitness	0	2	0	1
PED	210*	Team Sports	0	3	0	1
PED	211*	New Games	0	2	0	1
PHI	210	History of Philosophy	3	0	0	3
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4
POL	120	American Government	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	215	Positive Psychology	3	0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	259	Human Sexuality	3	0	0	3
PSY	275	Health Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	181	Spanish Lab I	0	2	0	1
SPA	182	Spanish Lab II	0	2	0	1
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3

\*Limited to 2 elective credit hours

A minimum of 14 SHC of college transfer courses in mathematics, natural sciences, or computer science is required. The remaining courses may be selected from general education, pre-major or elective courses.

Total Semester Hours credit in program: 65

The Automotive Systems Technology curriculum prepares individuals for employment as automotive service technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field.

Classroom and lab experiences integrate technical and academic coursework. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/transaxles, engine repair, climate control, and manual drive trains.

Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair shops in the automotive service industry.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A60160

#### FALL SEMESTER 1\*

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
AUT	110	Introduction to Auto Technology	2	2	0	3
AUT	151	Brake Systems	2	3	0	3
AUT	151A	Brake Systems Lab	0	3	0	1
AUT	161	Basic Auto Electricity	4	3	0	5
MAT	115	Mathematical Models	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	11	13	0	16

#### SPRING SEMESTER 1\*

AUT	163	Advanced Auto Electricity	2	3	0	3
AUT	163A	Advanced Auto Electricity Lab	0	3	0	1
AUT	181	Engine Performance I	2	3	0	3
AUT	181A	Engine Performance I Lab	0	3	0	1
CIS	111	Basic PC Literacy	1	2	0	2
ENG	111	Expository Writing	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	11	14	0	16

#### SUMMER SEMESTER\*

AUT	171	Auto Climate Control	2	4	0	4
AUT	183	Engine Performance II	2	6	0	4
AUT	212	Auto Shop Management	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	7	10	0	11

#### FALL SEMESTER 2

AUT	113	Automotive Servicing I	0	6	0	2
AUT	116	Engine Repair	2	3	0	3
AUT	231	Manual Transmission/Axles/Drtrains	2	3	0	3
AUT	231A	Manual Transm/Axles/Drtrains Lab	0	3	0	1
AUT	281	Advanced Engine Performance	2	2	0	3
ENG	114	Professional Research & Reporting	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	17	0	15

#### SPRING SEMESTER 2

AUT	141	Suspension & Steering Systems	2	3	0	3
AUT	141A	Suspension & Steering Lab	0	3	0	1
AUT	221	Automatic Transmissions/Transax	2	3	0	3
AUT	221A	Automatic Transmissions/Transax Lab	0	3	0	1
AUT	283	Advanced Auto Electronics	2	2	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	14	0	14

Total Semester Hour Credits: 72

\***DIPLOMA (D60160)** awarded after first three semesters

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/automotive-systems-technology-degree>

### **CERTIFICATE C60160**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/automotive-systems-technology-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Shop</u>	<u>Credit</u>
AUT	110	Intro to Auto Technology	2	2	0	3
AUT	113	Automotive Servicing I	0	6	0	2
AUT	141	Suspension & Steering Systems	2	3	0	3
AUT	141A	Suspension & Steering Systems Lab	0	3	0	1
AUT	151	Brake Systems	2	3	0	3
AUT	151A	Brake Systems Lab	0	3	0	1
<u>Choose one of the following:</u>						
AUT	161	Basic Auto Electricity	4	3	0	5
AUT	171	Auto Climate Control	<u>2</u>	<u>4</u>	<u>0</u>	<u>4</u>
		Totals	8-10	23-24	0	17-18

Total Semester Hour Credits: 17-18

### **CERTIFICATE C60160CP\***

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Shop</u>	<u>Credit</u>
AUT	110	Introduction to Auto Technology	2	2	0	3
AUT	141	Suspension & Steering Systems	2	3	0	3
AUT	151	Brake Systems	2	3	0	3
AUT	151A	Brake Systems Lab	0	3	0	1
AUT	161	Basic Auto Electricity	4	3	0	5
AUT	181	Engine Performance I	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	12	17	0	18

Total Semester Hour Credits: 18

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

### **FACULTY**

**David Myers, Program Coordinator**

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(828) 339.4237 or (800) 447.4091, ext. 4237

**Bobby Price**

Franklin High School

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The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology.

Course work emphasizes biology, chemistry, mathematics, and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist; laboratory technician/instrumentation technician; and quality control/quality assurance technician.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales, and customer service.

This program is offered in conjunction with Asheville-Buncombe Technical Community College in Buncombe County. Students will take course work at both institutions. General education courses will be taken at Southwestern Community College and the biotechnology courses at Asheville-Buncombe Technical Community College.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A20100

#### FALL SEMESTER I

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	111	General Biology I*	3	3	0	4
CHM	131	Introduction to Chemistry*	3	0	0	3
CHM	131A	Introduction to Chemistry Lab*	0	3	0	1
ENG	111	Expository Writing*	3	0	0	3
MAT	161	College Algebra*	3	0	0	3
<u>Choose one of the following sets:</u>						
ACA	111	College Student Success	1	0	0	1
ACA	115	Success & Study Skills*	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	12-13	6-8	0	15

#### SPRING SEMESTER I

BIO	112	General Biology II*	3	3	0	4
CHM	132	Organic & Biochemistry*	3	3	0	4
***	***	Elective SBS or HFA*	3	0	0	3
<u>Choose one of the following sets:</u>						
MAT	151	Statistics I*	3	0	0	3
MAT	151A	Statistics I Lab*	0	2	0	1
MAT	155	Statistical Analysis	3	0	0	3
MAT	155A	Statistical Analysis Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	12	8	0	15

#### SUMMER SEMESTER I

BIO	275	Microbiology	3	3	0	4
BTC	181	Basic Lab Techniques	<u>3</u>	<u>3</u>	<u>0</u>	<u>4</u>
		Totals	6	6	0	8

**FALL SEMESTER 2**

## Minimester I

BTC	285	Cell Culture	2	3	0	3
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## Minimester II

BTC	250	Molecular Genetics	3	0	0	3
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## Full Semester

CIS	110	Introduction to Computers*	2	2	0	3
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BIO	140	Environmental Biology*	3	0	0	3
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BIO	140A	Environmental Biology Lab*	0	3	0	1
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Choose one of the following:

ENG	114	Professional Research and Reporting*	3	0	0	3
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COM	231	Public Speaking*	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
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		Totals	13	8	0	16
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**SPRING SEMESTER 2**

BTC	286	Immunological Techniques	3	3	0	4
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BTC	270	Recombinant DNA Tech	3	3	0	4
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BTC	281	Bioprocess Techniques	2	6	0	4
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***	***	Elective SBS or HFA*	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
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		Totals	11	12	0	15
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**SUMMER SEMESTER 2**Choose one of the following:

BTC	288	Biotech Lab Experience Techniques	0	9	0	3
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COE	213BT	Coop Work Experience	<u>0</u>	<u>0</u>	<u>30</u>	<u>3</u>
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		Totals	0	0-9	0-30	3
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Total Semester Credit Hours: 72

\* Courses offered through Southwestern Community College

Other courses are taught at Asheville-Buncombe Technical Community College

Degree awarded by Asheville-Buncombe Technical Community College

**ADVISOR**

**Deanne Oppermann**

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The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry. Students can complete the courses required for this degree and certificate as online courses.

## ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25120

### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3

Choose one of the following:

MAT	140	Survey of Mathematics	3	0	0	3
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OR

MAT	151	Statistics	3	0	0	3
MAT	151A	Statistics Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
Totals			12	2-4	0	13-14

### SPRING SEMESTER 1

ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	139	Entrepreneurship I	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
ECM	210	Intro to Electronic Commerce	2	2	0	3
ENG	114	Professional Research & Reporting	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			13	6	0	16

### SUMMER SEMESTER

BUS	137	Principles of Management	3	0	0	3
***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			9	0	0	9

### FALL SEMESTER 2

ACC	121	Principles of Managerial Acct	3	2	0	4
BUS	115	Business Law I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
MKT	120	Principles of Marketing	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			12	2	0	13

**SPRING SEMESTER 2**

BUS	125	Personal Finance	3	0	0	3
BUS	135	Principles of Supervision	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
MKT	223	Customer Service	3	0	0	3
<u>Choose one of the following:</u>						
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15	0	0	15

Total Semester Hour Credits: 66-67

**CERTIFICATE - C25120 & C25120CP\***

There are many employment opportunities for people with basic business skills. When you complete this certificate, you will have the basic knowledge and business awareness to help you get started in the business world.

SCC offers the five courses for this certificate online, a convenient option for many students. Further, the certificate course requirements earn credit toward an Associate's Degree in the program.

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/business-administration-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
MKT	120	Principles of Marketing	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	14	4	0	16

Total Semester Hour Credits: 16

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

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Electronic Commerce is a concentration under the title of Business Administration. This curriculum is designed to prepare individuals for a career in the Internet economy.

Course work includes topics related to electronic business, Internet strategy in business, basic business principles in the world of E-Commerce. Students will be able to demonstrate the ability to identify and analyze such functional issues as planning, technical systems, marketing, security, finance, law, design, implementation, assessment and policy issues at an entry level.

Graduates from this program will have a sound business educational base for life long learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and small to medium size businesses or industry. Students can complete the courses required for this degree and certificate as online courses.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A2512I

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
<u>Choose one of the following:</u>						
MAT	140	Survey of Mathematics	3	0	0	3
OR						
MAT	151	Statistics	3	0	0	3
MAT	151A	Statistics Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	12	2-4	0	13-14

#### SPRING SEMESTER 1

ACC	120	Principles of Financial Accounting	3	2	0	4
ECM	210	Introduction to Electronic Commerce	2	2	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
WEB	140	Web Development Tools	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	14	8	0	16

#### SUMMER SEMESTER

BUS	137	Principles of Management	3	0	0	3
ECM	220	Electronic Commerce Planning & Implementation	2	2	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	8	2	0	9

#### FALL SEMESTER 2

BUS	115	Business Law I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
ECM	168	Electronic Business	2	2	0	3
MKT	120	Principles of Marketing	3	0	0	3
WEB	111	Introduction to Web Graphics	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	13	4	0	15



**SPRING SEMESTER 2**

ECM	230	Capstone Project	1	6	0	3
MKT	223	Customer Service	3	0	0	3
WEB	120	Introduction to Internet Multimedia	2	2	0	3
***	***	Social Science Elective	3	0	0	3
<u>Choose one of the following:</u>						
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	10	10	15

Total Semester Hour Credits: 68-69

**CERTIFICATE - C2512I & C2512ICP\***

If you already have a college degree or business skills, you may choose to pursue a Business Administration - Electronic Commerce certificate. SCC offers the six courses required for the certificate online, a convenient format for many students. Further, the certificate course requirements earn credit toward an associate's degree in the program.

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/business-administration-electronic-commerce-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ECM	168	Electronic Business	2	2	0	3
ECM	210	Introduction to Electronic Commerce	2	2	0	3
ECM	220	Electronic Commerce Planning & Implementation	2	2	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
WEB	111	Introduction to Web Graphics	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
		Totals	12	12	0	18

Total Semester Hours Credit: 18

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

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The Entrepreneurship track in Business Administration is designed to provide students with the fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy. In addition, students choose electives that give them the knowledge and skills necessary for employment and growth as self-employed business owners.

Courses include entrepreneurial concepts learned in innovation and creativity, business funding, and marketing.

Through these skills, students will have a sound education base in entrepreneurship for lifelong learning. Graduates are prepared to be self-employed and open their own businesses. Students can complete the courses required for this degree and certificate as online courses.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25120

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
<u>Choose one of the following:</u>						
MAT	140	Survey of Mathematics	3	0	0	3
OR						
MAT	151	Statistics	3	0	0	3
MAT	151A	Statistics Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	12	2-4	0	13-14

#### SPRING SEMESTER 1

ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	139	Entrepreneurship I	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
ECM	210	Intro to Electronic Commerce	2	2	0	3
ENG	114	Professional Research & Reporting	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	13	6	0	16

#### SUMMER SEMESTER

BUS	137	Principles of Management	3	0	0	3
***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	0	0	9

#### FALL SEMESTER 2

ACC	121	Principles of Managerial Acct	3	2	0	4
BUS	115	Business Law I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
ETR	220	Innovation and Creativity	3	0	0	3
MKT	120	Principles of Marketing	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15	2	0	16

**SPRING SEMESTER 2**

BUS	125	Personal Finance	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
ETR	240	Funding for Entrepreneurs	3	0	0	3
<u>Choose one of the following:</u>						
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	0	0	12

Total Semester Hour Credits: 66-67

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The Office Administration track in Business Administration is designed to provide students with the fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy. In addition, students choose electives that prepare individuals for positions in administrative support careers in the computerized workplace.

Students will complete courses designed to develop proficiency in the use of integrated software, oral and written communication, analysis and coordination of office duties and systems, and other support topics. Emphasis is placed on non-technical as well as technical skills.

Graduates should qualify for employment in a variety of positions in business, government, and industry. Students can complete the courses required for this degree as online courses.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25120

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	164	Text Editing Applications	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	14	4	0	16

#### SPRING SEMESTER 1

ACC	120	Principles of Financial Accounting	3	2	0	4
CTS	130	Spreadsheet I	2	2	0	3
ENG	114	Professional Research and Reporting	3	0	0	3
<u>Choose one of the following:</u>						
MAT	140	Survey of Mathematics	3	0	0	3
OR						
MAT	151	Statistics	3	0	0	3
MAT	151A	Statistics Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	11	4-6	0	13-14

#### SUMMER SEMESTER

BUS	137	Principles of Management	3	0	0	3
***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	0	0	9

#### FALL SEMESTER 2

ACC	121	Principles of Managerial Accounting	3	2	0	4
BUS	115	Business Law I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
OST	184	Records Management	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	14	4	0	16

**SPRING SEMESTER 2**

BUS	135	Principles of Supervision	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	289	Administrative Office Management	2	2	0	3
<u>Choose one of the following:</u>						
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	11	2	0	12

Total Semester Hour Credits: 66-67

**CERTIFICATE C2512001 & C2512001P\***

Western North Carolina has a need for skilled administrative assistants now. Update your office skills and increase your marketability with an Office Administration Certificate. Students can complete the courses required for this certificate as online courses.

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/office-administration-certificate>

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	110	Introduction to Computers	2	2	0	3
OST	136	Word Processing	2	2	0	3
OST	164	Text Editing Applications	3	0	0	3
OST	184	Records Management	<u>2</u>	<u>2</u>	0	<u>3</u>
		Totals	9	6	0	12

**SPRING SEMESTER 1**

CTS	130	Spreadsheet	2	2	0	3
OST	289	Administrative Office Management	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	4	4	0	6

Total Semester Hour Credits: 18

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

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The Civil Engineering Technology curriculum provides the application of relevant theory of engineering needed by technicians to carry out planning and supervisory tasks in the construction of transportation systems, residential and commercial buildings, bridges, dams, and water and wastewater treatment systems.

Course work includes the communication and computational skills required to support the fields such as materials testing, structures, estimating, project management, hydraulics, environmental technology, and surveying. Additional coursework will cover the operation of computers and application software including computer-aided drafting.

Graduates should qualify for technician-level jobs with both public and private engineering, construction, and surveying agencies.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A40140

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
CIV	125	Civil/Surveying CAD	1	6	0	3
EGR	115	Introduction to Technology	2	3	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	13	15	0	17

#### SPRING SEMESTER 1

CIV	110	Statics/Strength of Materials	2	6	0	4
ENG	114	Professional Research & Reporting	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trigonometry Lab	0	2	0	1
SRV	110	Surveying I	<u>2</u>	<u>6</u>	<u>0</u>	<u>4</u>
		Totals	10	14	0	15

#### SUMMER SEMESTER

CIV	230	Construction Estimating	2	3	0	3
SRV	111	Surveying II	2	6	0	4
SRV	210	Surveying III	2	6	0	4
***	***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	15	0	14

#### FALL SEMESTER 2

CIV	111	Soils and Foundations	2	3	0	3
CIV	210	Engineering Materials	1	3	0	2
CIV	211	Hydraulics & Hydrology	2	3	0	3
CIV	240	Project Management	2	3	0	3
SRV	240	Topographic/Site Surveying	<u>2</u>	<u>6</u>	<u>0</u>	<u>4</u>
		Totals	9	18	0	15

**SPRING SEMESTER 2**

CIV	212	Environmental Planning	2	3	0	3
CIV	215	Highway Technology	1	3	0	2
PHY	151	College Physics I	3	2	0	4
SRV	230	Subdivision Planning	1	6	0	3
***	***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	10	14	0	15

Total Semester Hours Credit: 76

**FACULTY**

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The Core 44 College Transfer Pathway is designed for high school juniors and seniors who wish to begin the pathway towards a baccalaureate degree. The Core 44 Pathway is a structured set of general education courses leading to completion of the Associate in Arts or Associate in Science diploma (44 hours) or degree (64 hours). After completing this pathway, students may pursue completion of the Associate in Arts or Associate in Science diploma or degree. By itself, this pathway is not equivalent to the general education core requirements at a North Carolina community college or university.

Upon completion of the diploma or degree and admission to a North Carolina public university or a participating independent college or university, students will receive credit for the undergraduate, lower division general education core as established in the Comprehensive Articulation Agreement between the University of North Carolina and the North Carolina Community College System.

#### COLLEGE TRANSFER BUSINESS & ECONOMICS PATHWAY – P1012B

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	122	College Transfer Success	1	0	0	1
BIO	111	General Biology I	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
COM	140	Intro. to Intercultural Communication	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	241	British Literature I	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
MAT	161	College Algebra	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
		Totals	30	5	0	32

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

Beginning January 1, 2012, new legislation combined Learn & Earn Online, Dual and Concurrent Enrollment as well as Huskins- ACE programs into “Career & College Pathways.” Qualified juniors and seniors may begin their two or four year college work, tuition free, while they are in high school. These pathways allow highly motivated students to get a head start on their workplace and college preparation. For more information about these opportunities, please visit our website: [www.southwesterncc.edu](http://www.southwesterncc.edu), Academics, Career & College Promise.

#### ADVISOR

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The Core 44 College Transfer Pathway is designed for high school juniors and seniors who wish to begin the pathway towards a baccalaureate degree. The Core 44 Pathway is a structured set of general education courses leading to completion of the Associate in Arts or Associate in Science diploma (44 hours) or degree (64 hours). After completing this pathway, students may pursue completion of the Associate in Arts or Associate in Science diploma or degree. By itself, this pathway is not equivalent to the general education core requirements at a North Carolina community college or university.

Upon completion of the diploma or degree and admission to a North Carolina public university or a participating independent college or university, students will receive credit for the undergraduate, lower division general education core as established in the Comprehensive Articulation Agreement between the University of North Carolina and the North Carolina Community College System.

#### COLLEGE TRANSFER ENGINEERING & MATHEMATICS PATHWAY – P1042

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	122	College Transfer Success	1	0	0	1
CHM	151	General Chemistry I	3	3	0	4
ECO	251	Principles of Microeconomics	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	241	British Literature I	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trigonometry Lab	0	2	0	1
MAT	271	Calculus I	<u>3</u>	<u>2</u>	<u>0</u>	<u>4</u>
		Totals	28	9	0	32

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

Beginning January 1, 2012, new legislation combined Learn & Earn Online, Dual and Concurrent Enrollment as well as Huskins- ACE programs into “Career & College Pathways.” Qualified juniors and seniors may begin their two or four year college work, tuition free, while they are in high school. These pathways allow highly motivated students to get a head start on their workplace and college preparation. For more information about these opportunities, please visit our website: [www.southwesterncc.edu](http://www.southwesterncc.edu), Academics, Career & College Promise.

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The Core 44 College Transfer Pathway is designed for high school juniors and seniors who wish to begin the pathway towards a baccalaureate degree. The Core 44 Pathway is a structured set of general education courses leading to completion of the Associate in Arts or Associate in Science diploma (44 hours) or degree (64 hours). After completing this pathway, students may pursue completion of the Associate in Arts or Associate in Science diploma or degree. By itself, this pathway is not equivalent to the general education core requirements at a North Carolina community college or university.

Upon completion of the diploma or degree and admission to a North Carolina public university or a participating independent college or university, students will receive credit for the undergraduate, lower division general education core as established in the Comprehensive Articulation Agreement between the University of North Carolina and the North Carolina Community College System.

#### COLLEGE TRANSFER HUMANITIES & SOCIAL SCIENCE PATHWAY – P1012A

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	122	College Transfer Success	1	0	0	1
ART	111	Art Appreciation	3	0	0	3
BIO	111	General Biology I	3	3	0	4
COM	140	Intro. to Intercultural Communication	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	241	British Literature I	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
MAT	161	College Algebra	3	0	0	3
PSY	150	General Psychology	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
		Totals	31	3	0	32

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

Beginning January 1, 2012, new legislation combined Learn & Earn Online, Dual and Concurrent Enrollment as well as Huskins- ACE programs into “Career & College Pathways.” Qualified juniors and seniors may begin their two or four year college work, tuition free, while they are in high school. These pathways allow highly motivated students to get a head start on their workplace and college preparation. For more information about these opportunities, please visit our website: [www.southwesterncc.edu](http://www.southwesterncc.edu), Academics, Career & College Promise.

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The Core 44 College Transfer Pathway is designed for high school juniors and seniors who wish to begin the pathway towards a baccalaureate degree. The Core 44 Pathway is a structured set of general education courses leading to completion of the Associate in Arts or Associate in Science diploma (44 hours) or degree (64 hours). After completing this pathway, students may pursue completion of the Associate in Arts or Associate in Science diploma or degree. By itself, this pathway is not equivalent to the general education core requirements at a North Carolina community college or university.

Upon completion of the diploma or degree and admission to a North Carolina public university or a participating independent college or university, students will receive credit for the undergraduate, lower division general education core as established in the Comprehensive Articulation Agreement between the University of North Carolina and the North Carolina Community College System.

#### COLLEGE TRANSFER LIFE & HEALTH SCIENCES PATHWAY – P1042A

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	122	College Transfer Success	1	0	0	1
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
ENG	111	Expository Writing	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	241	British Literature I	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
MAT	175	Precalculus	4	0	0	4
MAT	175A	Precalculus Lab	0	2	0	1
		Totals	29	14	0	34

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

Beginning January 1, 2012, new legislation combined Learn & Earn Online, Dual and Concurrent Enrollment as well as Huskins- ACE programs into “Career & College Pathways.” Qualified juniors and seniors may begin their two or four year college work, tuition free, while they are in high school. These pathways allow highly motivated students to get a head start on their workplace and college preparation. For more information about these opportunities, please visit our website: [www.southwesterncc.edu](http://www.southwesterncc.edu), Academics, Career & College Promise.

#### ADVISOR

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The Computer Engineering Technology curriculum provides the skills required to install, service, and maintain computers, peripherals, networks, microprocessors and computer controlled equipment. It includes training in both hardware and software, emphasizing operating systems concepts to provide a unified view of computer systems.

Coursework includes mathematics, physics, electronics, digital circuits, and programming, with emphasis on the operation, use, and interfacing of memory and devices to the CPU. Additional topics may include communications, networks, operating systems, programming languages, Internet configuration and design, and industrial applications.

Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring a knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A40160

#### FALL SEMESTER I

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CET	110	Introduction to CET	0	3	0	1
DFT	117	Technical Drafting	1	2	0	2
ELC	131	DC/AC Circuit Analysis	4	3	0	5
HRD	***	College Student Success	0	0	0	0
MAT	121	Algebra/Trigonometry I	2	2	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	10	10	0	14

#### SPRING SEMESTER I

CET	222	Computer Architecture	2	0	0	2
CET	225	Digital Signal Processing	2	2	0	3
ELN	131	Semiconductor Applications	3	3	0	4
ENG	111	Expository Writing	3	0	0	3
MAT	122	Algebra/Trigonometry II	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	12	7	0	15

#### SUMMER SEMESTER

CSC	134	C++ Programming	2	3	0	3
ELN	133	Digital Electronics	3	3	0	4
ENG	114	Professional Research & Reporting	3	0	0	3
<u>Choose one of the following:</u>						
ELN	215	Semiconductor Physics	3	0	0	3
PHY	131	Physics-Mechanics	<u>3</u>	<u>2</u>	<u>0</u>	<u>4</u>
		Totals	11	6-8	0	13-14

#### FALL SEMESTER 2

CET	111	Computer Upgrade/Repair I	2	3	0	3
CET	251	Software Engineering Principles	3	3	0	4
ELN	232	Introduction to Microprocessors	3	3	0	4
ELN	235	Data Communication System	<u>3</u>	<u>3</u>	<u>0</u>	<u>4</u>
		Totals	11	12	0	15

**SPRING SEMESTER 2**

CET	211	Computer Upgrade/Repair II	2	3	0	3
CET	245	Internet Servers	2	3	0	3
ELN	233	Microprocessor Systems	3	3	0	4
ELN	257	Telecom Software	2	3	0	3
***	***	Humanities Elective	3	0	0	3
<u>Choose one of the following:</u>						
COE	112	Co-Op Work Experience I	0	0	20	2
EGR	285	Design Project	0	4	0	2
		Totals	12	12-16	0-20	18

Total Semester Hour Credits: 75-76

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The Computer Information Technology curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible curriculum that can be customized to meet community information systems needs.

Course work will develop a student's ability to communicate complex technical issues related to computer hardware, software, and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security, and technical support.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25260

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
NET	110	Networking Concepts	2	2	0	3
NOS	110	Operating System Concepts	2	3	0	3
WEB	110	Internet/Web Fundamentals	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	12	9	0	16

#### SPRING SEMESTER 1

CIS	115	Introduction to Programming & Logic	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	8	0	15

#### SUMMER SEMESTER

BUS	110	Introduction to Business	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
***	***	Social Science Elective	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	0	0	12

#### FALL SEMESTER 2

CSC	139	Visual BASIC Programming	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	285	Systems Analysis & Design	3	0	0	3
NOS	230	Windows Admin I	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	11	11	0	15

**SPRING SEMESTER 2**

COE	111	Co-op Work Experience I	0	0	10	1
CSC	284	Emerging Computer Program Tech.	2	3	0	3
CTS	250	User Support & Software Evaluation	2	2	0	3
CTS	287	Emerging Technologies	3	0	0	3
CTS	289	System Support Project	1	4	0	3
NOS	120	Linux/UNIX Single User	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	10	11	10	16

Total Semester Hour Credits: 74

**CERTIFICATE C25260 & C25260CP\***

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/computer-information-technology-certificate>

**FALL SEMESTER**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	110	Introduction to Computers	2	2	0	3
NET	110	Networking Concepts	2	2	0	3
NOS	110	Operating System Concepts	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	6	7	0	9

**SPRING SEMESTER**

CIS	115	Introduction to Programming & Logic	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
SEC	110	Security Concepts	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	7	6	0	9

Total Semester Hour Credits: 18

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

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The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and related businesses.

Enrollment is limited to “first-come, first-served” basis and will be closed when capacity is reached.

**ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55140 (1500 Hours)**

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
COS	111	Cosmetology Concepts I	4	0	0	4
COS	112	Salon I	0	24	0	8
		Totals	5	24	0	13

**SPRING SEMESTER 1**

COS	113	Cosmetology Concepts II	4	0	0	4
COS	114	Salon II	0	24	0	8
ENG	111	Expository Writing	3	0	0	3
***	***	Elective	1	2	0	2
		Totals	8	26	0	17

**SUMMER SEMESTER**

COS	115	Cosmetology Concepts III	4	0	0	4
COS	116	Salon III	0	12	0	4
***	***	Elective	3	0	0	3
		Totals	7	12	0	11

**FALL SEMESTER 2**

COS	117	Cosmetology Concepts IV	2	0	0	2
COS	118	Salon IV	0	21	0	7
MAT	115	Mathematical Models	2	2	0	3
***	***	Elective	2	2	0	3
		Totals	6	25	0	15

**SPRING SEMESTER 2**

ENG	114	Professional Research & Reporting	3	0	0	3
PSY	150	General Psychology	3	0	0	3
***	***	Humanities Elective	3	0	0	3

Choose one of the following:

BUS	230	Small Business Management	3	0	0	3
BUS	280	REAL Small Business	4	0	0	4
		Totals	12-13	0	0	12-13

Total Semester Hour Credits: 68-69



**DIPLOMA D55140 (1500 Hours)**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/cosmetology-diploma>

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
COS	111	Cosmetology Concepts I	4	0	0	4
COS	112	Salon I	<u>0</u>	<u>24</u>	<u>0</u>	<u>8</u>
		Totals	4	24	0	12

**SPRING SEMESTER 1**

COS	113	Cosmetology Concepts II	4	0	0	4
COS	114	Salon II	<u>0</u>	<u>24</u>	<u>0</u>	<u>8</u>
		Totals	4	24	0	12

**SUMMER SEMESTER**

COS	115	Cosmetology Concepts III	4	0	0	4
COS	116	Salon III	0	12	0	4
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	7	12	0	11

**FALL SEMESTER 2**

COS	117	Cosmetology Concepts IV	2	0	0	2
COS	118	Salon IV	0	21	0	7
ENG	111	Expository Writing	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	5	21	0	12

Total Semester Hour Credits: 47

**FACULTY**

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**CERTIFICATE C55140 (1500 Hours)**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at:

<http://www.southwesterncc.edu/program/cosmetology-certificate-1500-hours>

**FALL SEMESTER 1**

COS	111	Cosmetology Concepts I	4	0	0	4
COS	112	Salon I	<u>0</u>	<u>24</u>	<u>0</u>	<u>8</u>
		Totals	4	24	0	12

**SPRING SEMESTER 1**

COS	113	Cosmetology Concepts II	4	0	0	4
COS	114	Salon II	<u>0</u>	<u>24</u>	<u>0</u>	<u>8</u>
		Totals	4	24	0	12

**SUMMER SEMESTER**

COS	115	Cosmetology Concepts III	4	0	0	4
COS	116	Salon III	<u>0</u>	<u>12</u>	<u>0</u>	<u>4</u>
		Totals	4	12	0	8

**FALL SEMESTER 2**

COS	117	Cosmetology Concepts IV	2	0	0	2
COS	118	Salon IV	<u>0</u>	<u>21</u>	<u>0</u>	<u>7</u>
		Totals	2	21	0	9

Total Semester Hour Credits: 41

**CERTIFICATE - C55140CP\***

This certificate does not meet the 1500 hour licensure requirement. Students must complete additional classes before taking state exam.

COS	111	Cosmetology Concepts I	4	0	0	4
COS	112	Salon I	0	24	0	8
COS	113	Cosmetology Concepts II	4	0	0	4
COS	114	Salon II	<u>0</u>	<u>24</u>	<u>0</u>	<u>8</u>
		Totals	8	48	0	24

Total Semester Hour Credits: 24

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

#### **CERTIFICATE - C55400**

##### **FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
COS	121	Manicure/Nail Technology I	4	6	0	6

##### **SPRING SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
COS	222	Manicure/Nail Technology II	4	6	0	6

Total Semester Hour Credits: 12

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The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system's role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A55180

#### FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	120	Interviews/Interrogations	1	2	0	2
ENG	111	Expository Writing	3	0	0	3
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	16	4	0	18

#### SPRING SEMESTER 1

CJC	113	Juvenile Justice	3	0	0	3
CJC	131	Criminal Law	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
ENG	114	Professional Research & Reporting	3	0	0	3
***	***	CJ Elective	1-3	0-2	0	2-3

Choose one of the following:

MAT	115	Mathematical Models	2	2	0	3
MAT	140	Survey of Mathematics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15-18	2-6	0	18-19

#### SUMMER SEMESTER

COE	111	Co-op Work Experience I	<u>0</u>	<u>0</u>	<u>10</u>	<u>1</u>
		Totals	0	0	10	1

#### FALL SEMESTER 2

CJC	132	Court Procedure & Evidence	3	0	0	3
CJC	223	Organized Crime	3	0	0	3
CJC	231	Constitutional Law	3	0	0	3
COM	110	Introduction to Communication	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	18	0	0	18

**SPRING SEMESTER 2**

CJC	212	Ethics & Community Relations	3	0	0	3
CJC	213	Substance Abuse	3	0	0	3
CJC	255	Issues in Criminal Justice Applications	3	0	0	3
POL	120	American Government	3	0	0	3
***	***	Criminal Justice Elective	3	0	0	3
		Totals	15	0	0	15

Total Semester Hour Credits: 70-71

**Criminal Justice Electives**

CJC	114	Investigative Photography	1	2	0	2
CJC	121	Law Enforcement Operations	3	0	0	3
CJC	122	Community Policing	3	0	0	3
CJC	141	Corrections	3	0	0	3
CJC	214	Victimology	3	0	0	3
CJC	222	Criminalistics	3	0	0	3
CJC	225	Crisis Intervention	3	0	0	3
CJC	232	Civil Liability	3	0	0	3
CJC	241	Community-Based Corrections	3	0	0	3
CJC	256	Forensic Surveying	2	3	0	3

Students who successfully complete a Basic Law Enforcement Training (BLET) program accredited by the North Carolina Criminal Justice Education and Training Standards Commission and/or the North Carolina Sheriff's Education and Training Standards Commission will receive credit for CJC 120, CJC 121, CJC 131, CJC 132, CJC 221, and CJC 231 (19 credit hours total) toward the Criminal Justice Technology associate of applied science degree program.

**FACULTY**

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Latent Evidence is a concentration under the curriculum of Criminal Justice Technology. This curriculum is designed to provide knowledge of latent evidence systems and operations. Study will focus on local, state, and federal law enforcement, evidence processing and procedures.

Students will learn both theory and hands-on analysis of latent evidence. They will learn fingerprint classification, identification, and chemical development. Students will record, cast, and recognize footwear and tire-tracks; and process crime scenes. Issues and concepts of communications and the use of computers and computer assisted design programs in crime scene technology will be discussed.

Graduates should qualify for employment in a variety of criminal justice organizations especially in local, state, and federal law enforcement, and correctional agencies.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A5518A

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
CIS	111	Basic PC Literacy	1	2	0	2
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	144	Crime Scene Processing	2	3	0	3
CJC	250	Forensic Biology I	2	2	0	3
ENG	111	Expository Writing	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15	7	0	18

#### SPRING SEMESTER 1

CJC	113	Juvenile Justice	3	0	0	3
CJC	114	Investigative Photography	1	2	0	2
CJC	131	Criminal Law	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
ENG	114	Professional Research & Reporting	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	16	4	0	18

#### SUMMER SEMESTER

PSY	150	General Psychology	3	0	0	3
<u>Choose one of the following:</u>						
MAT	115	Mathematical Models	2	2	0	3
MAT	140	Survey of Mathematics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	5-6	0-2	0	6

#### FALL SEMESTER 2

CJC	132	Court Procedure and Evidence	3	0	0	3
CJC	222	Criminalistics	3	0	0	3
CJC	231	Constitutional Law	3	0	0	3
CJC	245	Friction Ridge Analysis	2	3	0	3
CJC	251	Forensic Chemistry I	<u>3</u>	<u>2</u>	<u>0</u>	<u>4</u>
		Totals	14	5	0	16

**SPRING SEMESTER 2**

CJC	120	Interviews/Interrogations	1	2	0	2
CJC	146	Trace Evidence	2	3	0	3
CJC	212	Ethics and Community Relations	3	0	0	3
CJC	246	Advanced Friction Ridge Analysis	2	3	0	3
CJC	252	Forensic Chemistry II	<u>3</u>	<u>2</u>	<u>0</u>	<u>4</u>
		Totals	11	10	0	15

Total Semester Hour Credits: 73

Students who successfully complete a Basic Law Enforcement Training (BLET) program accredited by the North Carolina Criminal Justice Education and Training Standards Commission and/or the North Carolina Sheriff's Education and Training Standards Commission will receive credit for CJC 120, CJC 131, CJC 132, CJC 221, and CJC 231 (16 credit hours total) toward the Criminal Justice Technology - Latent Evidence associate of applied science degree program.

**CERTIFICATE C5518A****REQUIRED COURSES**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CJC	144	Crime Scene Processing	2	3	0	3
CJC	222	Criminalistics	3	0	0	3
CJC	251	Forensic Chemistry I	3	2	0	4

Choose one of the following:

CJC	114	Investigative Photography	1	2	0	2
CJC	250	Forensic Biology 1	2	2	0	3

Choose one of the following:

CJC	146	Trace Evidence	2	3	0	3
CJC	245	Friction Ridge Analysis	2	3	0	3
CJC	252	Forensic Chemistry II	3	2	0	4

Semester Hour Credits: 15-17

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This curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55150

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
CIS	111	Basic PC Literacy	1	2	0	2
CUL	110	Sanitation & Safety	2	0	0	2
CUL	110A	Sanitation & Safety Lab	0	2	0	1
CUL	112	Nutrition for Foodservice	3	0	0	3
CUL	140	Culinary Skills I	2	6	0	5
CUL	160	Baking I	<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>
		Totals	10	14	0	17

#### SPRING SEMESTER 1

CUL	170	Garde Manger	1	4	0	3
CUL	240	Culinary Skills II	1	8	0	5
CUL	260	Baking II	1	4	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	115	Mathematical Models	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	8	18	0	17

#### SUMMER SEMESTER

COE	112	Co-op Work Experience I	<u>0</u>	<u>0</u>	<u>20</u>	<u>2</u>
		Totals	0	0	20	2

#### FALL SEMESTER 2

ACC	120	Principles of Financial Accounting	3	2	0	4
CUL	135	Food & Beverage Service	2	0	0	2
CUL	135A	Food & Beverage Service Lab	0	2	0	1
CUL	230	Global Cuisines	1	8	0	5
ENG	114	Professional Research and Reporting	3	0	0	3
HRM	245	Human Resource Mgmt – Hosp	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	12	0	18



**SPRING SEMESTER 2**

BUS	230	Small Business Management	3	0	0	3
CUL	120	Purchasing	2	0	0	2
CUL	250	Classical Cuisine	1	8	0	5
***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	11	8	0	16

Total Semester Hour Credits: 70

**CERTIFICATE - C55150 & C55150CP\***

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/culinary-arts-certificate>

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CUL	110	Sanitation & Safety	2	0	0	2
CUL	110A	Sanitation & Safety Lab	0	2	0	1
CUL	140	Culinary Skills I	2	6	0	5
CUL	160	Baking I	<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>
		Totals	5	12	0	11

**SPRING SEMESTER 1**

CUL	112	Nutrition for Foodservice	3	0	0	3
CUL	135	Food & Beverage Service	2	0	0	2
CUL	135A	Food & Beverage Service Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	5	2	0	6

Total Semester hour Credits: 17

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

**Ceretta Davis, Program Coordinator**

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This curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private businesses.

## ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55210

### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
CCT	110	Introduction to Cyber Crime	3	0	0	3
CCT	112	Ethics and High Technology	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
NET	110	Networking Concepts	2	2	0	3
NOS	110	Operating System Concepts	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	14	5	0	16

### SPRING SEMESTER 1

CCT	121	Computer Crime Investigation	3	2	0	4
ENG	111	Expository Writing	3	0	0	3
NET	175	Wireless Technology	2	2	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15	8	0	19

### SUMMER SEMESTER

ENG	114	Professional Research & Reporting	3	0	0	3
PSY	150	General Psychology	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	0	0	9

### FALL SEMESTER 2

CCT	231	Technology Crimes & Law	3	0	0	3
CCT	240	Data Recovery Techniques	2	3	0	3
CCT	250	Network Vulnerabilities I	2	2	0	3
CCT	272	Forensic Password Recovery	1	4	0	3
NOS	230	Windows Administration I	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	10	11	0	15

**SPRING SEMESTER 2**

CCT	241	Advanced Data Recovery	2	3	0	3
CCT	251	Network Vulnerabilities II	2	2	0	3
CCT	285	Trends in Cyber Crime	2	2	0	3
CCT	289	Capstone Project	1	6	0	3
***	***	Approved Elective	<u>1-2</u>	<u>2-4</u>	<u>0</u>	<u>2-3</u>
		Totals	8-9	15-17	0	14-15

Total Semester Hour Credits: 73-74

**\*Cyber Crime Electives**

CCT	260	Mobile Phone Examination	1	4	0	3
CCT	271	Mac Digital Forensics	1	4	0	3
CJC	114	Investigative Photography	1	2	0	2
CJC	120	Interviews/Interrogations	1	2	0	2
NET	125	Routing & Switching I	1	4	0	3
NOS	220	Linux/UNIX Admin I	2	2	0	3
SEC	170	SOHO Security	2	2	0	3

**FACULTY**

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The purpose of the Developmental Studies program is to provide an educational opportunity for students to increase their foundation skills in preparation for regular curriculum courses. Pre-curriculum courses are designed to provide individualized and group instruction in the areas of reading, standard written English, and mathematics.

These courses are required of students who do not achieve minimum scores on one or more sections of the college placement test and recommended to students on probation or suspension. Also, curriculum students who made a sufficient score on the college placement test but who desire to sharpen their skills for regular curriculum composition or math courses may choose to take developmental course work.

The college placement test results determine the pre-curriculum course areas and levels appropriate for students. Preferably, course work should be taken prior to, or concurrently with, first-year curriculum studies to avoid extending the total time for graduation.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Credit</u>
BIO	090	Foundations of Biology	3	2	4
CHM	090	Chemistry Concepts	4	0	4
CIS	070	Fundamentals of Computing	0	2	1
DMA	010	Operations with Integers	.75	.5	1
DMA	020	Fractions and Decimals	.75	.5	1
DMA	030	Propor/Ratio/Rate/Percent	.75	.5	1
DMA	040	Express/Lin Equat/Inequal	.75	.5	1
DMA	050	Graphs/Equations of Lines	.75	.5	1
DMA	060	Polynomial/Quadratic Appl	.75	.5	1
DMA	070	Rational Express/Equation	.75	.5	1
DMA	080	Radical Express/Equation	.75	.5	1
ENG	060	Speaking English Well	2	0	2
ENG	075	Reading & Language Essentials	5	0	5
ENG	085	Reading & Writing Foundations	5	0	5
ENG	090	Composition Strategies	3	0	3
ENG	090A	Composition Strategies Lab	0	2	1
ENG	091	Fast Track Composition Strategies	1	0	1
ENG	095	Reading & Comprehension Strategies	5	0	5
MAT	060	Essential Mathematics	3	2	4
MAT	070	Introductory Algebra	3	2	4
MAT	080	Intermediate Algebra	3	2	4
RED	080	Introduction to College Reading	3	2	4
RED	090	Improved College Reading	3	2	4
RED	091	Fast Track Improved College Reading	1	0	1

The Developmental Studies program is open to students on a year-round basis. Upon course completion, students will have developed:

1. Academic skills in the content areas of reading, standard written English, and/or mathematics
2. Expanded vocabulary and higher-level thinking skills
3. Responsibility for effective time management, learning styles, and study strategies
4. Enhanced self-confidence, positive attitude, motivation, and commitment to learning
5. Basic computer and keyboarding skills.

## ACADEMIC RELATED AND ORIENTATION CLASSES

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	1
ACA	115	Success & Study Skills	0	2	1
ACA	122	College Transfer Success	1	0	1

## FACULTY

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The Early Childhood Education curriculum prepares individuals to work with children from infancy through middle childhood in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with parents and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55220

#### FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
EDU	119	Introduction to Early Childhood Education	4	0	0	4
EDU	131	Child, Family, & Community	3	0	0	3
EDU	144	Child Development I	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
<u>Choose one of the following:</u>						
CIS	110	Introduction to Computers	2	2	0	3
CIS	111	Basic PC Literacy	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
Totals			15-16	2	0	16-17

#### SPRING SEMESTER 1

EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
EDU	151	Creative Activities	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
<u>Choose one of the following:</u>						
MAT	115	Mathematical Models	2	2	0	3
MAT	140	Survey of Mathematics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			14-15	0-2	0	15

#### SUMMER SEMESTER

EDU	162	Observation and Assessment in ECE	3	0	0	3
EDU	184	Early Childhood Introductory Practicum	1	3	0	2
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			7	3	0	8

#### FALL SEMESTER 2

EDU	153	Health, Safety, & Nutrition	3	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	3
EDU	280	Language & Literacy Experiences	3	0	0	3
EDU	***	Education Elective	3	0	0	3
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			15	0	0	15

**SPRING SEMESTER 2**

EDU	221	Children with Exceptionalities	3	0	0	3
EDU	259	Curriculum Planning	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	284	Early Child Capstone Practice	1	9	0	4
EDU	***	Education Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	11	0	16

Education Electives

Choose two:

EDU	154	Social/Emotional/Behavioral Devel.	3	0	0	3
EDU	161	Introduction to Exceptional Children	3	0	0	3
EDU	251	Exploration Activities	3	0	0	3
EDU	261	Early Childhood Administration I	3	0	0	3
EDU	262	Early Childhood Administration II	3	0	0	3

Total Semester Hour Credits: 70-71

**CERTIFICATE - C55220**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/early-childhood-education-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	144	Child Development I	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
<u>Choose one of the following:</u>						
EDU	151	Creative Activities	3	0	0	3
EDU	259	Curriculum Planning	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	16	0	0	16

Total Semester Hour Credits: 16

**CERTIFICATE - C55220CP\***

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	144	Child Development I	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
EDU	151	Creative Activities	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	16	0	0	16

Total Semester Hour Credits: 16

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

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 (828) 339.4210 or (800) 447.4091, ext. 4210

The Electrical/Electronics Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities.

Training, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, digital electronics, programmable logic controllers, industrial motor controls, the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical/electronic systems.

### DIPLOMA D35220

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/electricelectronics-technology-diploma>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	111	Basic PC Literacy	1	2	0	2
COE	112	Co-op Work Experience I	0	0	20	2
DFT	117	Technical Drafting	1	2	0	2
ELC	112	DC/AC Electricity	3	6	0	5
ELC	113	Basic Wiring I	2	6	0	4
ELC	114	Basic Wiring II	2	6	0	4
ELC	116	Telecom Cabling	1	2	0	2
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
ELN	131	Electronic Devices	3	3	0	4
ENG	111	Expository Writing	3	0	0	3
MAT	101	Applied Mathematics I	2	2	0	3
		Totals	22	38	20	38

Total Semester Hour Credits: 38

### CERTIFICATE - C35220 & C35220CP\*

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ELC	112	DC/AC Electricity	3	6	0	5
ELC	113	Basic Wiring I	2	6	0	4
		Totals	5	12	0	9

#### SPRING SEMESTER 1

ELC	114	Basic Wiring II	2	6	0	4
ELC	117	Motors and Controls	2	6	0	4
		Totals	4	12	0	8

Total Semester Hour Credits: 17

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

### FACULTY

**Ron Poor, Program Coordinator**  
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 (828) 339.4214 or (800) 447.4091, ext. 4214

**Kevin Cope**  
 (828) 339.4204 or (800) 447.4091, ext. 4204  
 kcope@southwesterncc.edu



The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A40200

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
DFT	117	Technical Drafting	1	2	0	2
ELC	131	DC/AC Circuit Analysis	4	3	0	5
HRD	***	College Student Success	0	0	0	0
MAT	121	Algebra/Trigonometry I	2	2	0	3
***	***	Social Science Elective	3	0	0	3
		Totals	10	7	0	13

#### SPRING SEMESTER 1

ELC	128	Introduction to PLC	2	3	0	3
ELN	131	Semi Conductor Applications	3	3	0	4
ENG	111	Expository Writing	3	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	3
		Totals	10	8	0	13

#### SUMMER SEMESTER

ELN	132	Linear IC Applications	3	3	0	4
ELN	133	Digital Electronics	3	3	0	4
ENG	114	Professional Research & Reporting	3	0	0	3

#### Choose one of the following:

ELN	215	Semiconductor Physics	3	0	0	3
PHY	131	Physics-Mechanics	3	2	0	4
		Totals	12	6-8	0	14-15

#### FALL SEMESTER 2

CET	111	Computer Upgrade/Repair I	2	3	0	3
ELN	229	Industrial Electronics	2	4	0	4
ELN	232	Introduction to Microprocessors	3	3	0	4
ELN	234	Communication Systems	3	3	0	4
ELN	275	Troubleshooting	1	3	0	2
		Totals	11	16	0	17

**SPRING SEMESTER 2**

ELN	152	Fabrication Techniques	1	3	0	2
ELN	231	Industrial Controls	2	3	0	3
ELN	258	FCC Commercial License Prep	3	0	0	3
ELN	264	Advanced Communication	4	3	0	5
***	***	Humanities Elective	3	0	0	3
<u>Choose one of the following:</u>						
COE	112	Co-op Work Experience I	0	0	20	2
EGR	285	Design Project	<u>0</u>	<u>4</u>	<u>0</u>	<u>2</u>
		Totals	13	9-13	0-20	18

Total Semester Hour Credits: 75-76

**FACULTY****Ron Poor, Program Coordinator**

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**Mike Deaver**

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(828) 339.4337 or (800) 447.4091, ext. 4337

The Emergency Medical Science curriculum is designed to prepare graduates to enter the workforce as paramedics. Additionally, the program can provide an Associate Degree for individuals desiring an opportunity for career enhancement.

The course of study provides the student an opportunity to acquire basic and advanced life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, hospital clinical experience, and field internships with emergency medical service agencies.

Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industries, educational institutions, and government agencies.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45340

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	168	Anatomy and Physiology I	3	3	0	4
EMS	110	EMT-Basic	5	6	0	7
EMS	150	Emergency Vehicles & EMS Communication	1	3	0	2
ENG	111	Expository Writing	3	0	0	3
MAT	110	Mathematical Measurement	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	14	14	0	19

#### SPRING SEMESTER 1

BIO	169	Anatomy and Physiology II	3	3	0	4
EMS	120	Intermediate Interventions	2	3	0	3
EMS	121	EMS Clinical Practicum I	0	0	6	2
EMS	130	Pharmacology I for EMS	1	3	0	2
EMS	131	Advanced Airway Management	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
		Totals	7	11	6	13

#### SUMMER SEMESTER

EMS	220	Cardiology	2	6	0	4
EMS	221	EMS Clinical Practicum II	0	0	9	3
ENG	114	Professional Research and Reporting	3	0	0	3
<u>Choose one of the following:</u>						
EMS	115	Defense Tactics for EMS	1	3	0	2
EMS	230	Pharmacology II for EMS	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	6	9	9	12

#### FALL SEMESTER 2

EMS	140	Rescue Scene Management	1	3	0	2
EMS	210	Advanced Patient Assessment	1	3	0	2
EMS	231	EMS Clinical Practicum III	0	0	9	3
EMS	243	Wilderness EMT	1	2	0	2
EMS	250	Advanced Medical Emergencies	2	3	0	3
EMS	260	Advanced Trauma Emergencies	1	3	0	2
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	14	9	17

#### SPRING SEMESTER 2

EMS	235	EMS Management	2	0	0	2
EMS	240	Special Needs Patients	1	2	0	2
EMS	241	EMS Clinical Practicum IV	0	0	9	3
EMS	270	Life Span Emergencies	2	2	0	3
EMS	285	EMS Capstone	1	3	0	2
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	7	9	15

Total Semester Hour Credits: 76

**DIPLOMA D45340 EVENING PROGRAM**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/emergency-medical-science-diploma>

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	168	Anatomy and Physiology I	3	3	0	4
EMS	131	Advanced Airway Management	1	2	0	2
MAT	110	Mathematical Measurement	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	6	7	0	9

**SPRING SEMESTER 1**

BIO	169	Anatomy and Physiology II	3	3	0	4
EMS	120	Intermediate Interventions	2	3	0	3
EMS	121	EMS Clinical Practicum I*	0	0	6	2
EMS	130	Pharmacology I for EMS	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	6	9	6	11

**SUMMER SEMESTER**

EMS	220	Cardiology	2	6	0	4
EMS	221	EMS Clinical Practicum II**	0	0	9	3
EMS	230	Pharmacology II for EMS	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	3	9	9	9

**FALL SEMESTER 2**

EMS	231	EMS Clinical Practicum III***	0	0	9	3
EMS	250	Advanced Medical Emergencies	2	3	0	3
EMS	260	Advanced Trauma Emergencies	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	3	6	9	8

**SPRING SEMESTER 2**

EMS	240	Special Needs Patients	1	2	0	2
EMS	270	Life Span Emergencies	2	2	0	3
EMS	285	EMS Capstone	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	4	7	0	7

Total Semester Hour Credits: 44

\* Clinical may be completed on Tuesday, Thursday, Saturday, or Sunday for a total of 96 hours

\*\* Clinical may be completed Sunday-Saturday for a total of 144 hours

\*\*\* Clinical may be completed Sunday-Saturday for a total of 144 hours

Prerequisite: SCC's EMS Evening Diploma program is an EMT-Intermediate through Paramedic curriculum.

**CERTIFICATE C45340 & C45340CP\***

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
EMS	110	EMT Basic	5	6	0	7
EMS	115	Defense Tactics for EMS	1	3	0	2
EMS	140	Rescue Scene Management	1	3	0	2
EMS	150	Emergency Vehicles & EMS Comm.	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	8	15	0	13

Total Semester Hour Credits: 13

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

## ADMISSIONS CRITERIA

The admission requirements for the Emergency Medical Science program are as follows:

### PHASE I - To be completed by May 15

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.0 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.  
This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
  - b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.
6. Complete ACA 111 or equivalent course with a grade of "C" or better.
7. Submit a copy of a current/valid North Carolina drivers license.
8. Be 18 years of age by the end of the first semester of the program.  
Exception: current high school students must turn 18 within one year of completion of EMS 110
9. Special legal requirements exist which may limit the ability of an individual to obtain clinical experience, employment, or certification in this field. Prospective students should obtain additional information from a program faculty member prior to seeking admission.

### PHASE II

Those individuals who have completed all the components of Phase I requirements are notified of provisional acceptance status and will be provided with SCC health forms to be completed by the appropriate medical personnel. The completed medical forms must indicate that you are capable of meeting the physical requirements for the program. These forms should be sent to the program director. Once satisfactory health forms have been received, the Admissions Office will send a letter of acceptance.

Notes:

1. The EMS program has a limited enrollment and only admits a class in the fall of each year. Applications must be completed and supporting documents submitted by May 15 of the year in which the student wishes to enroll in the program. If all slots have not been filled after the above deadline, there may be extensions to the deadline. Please check with the Admissions Office about the status of the program. Further more, if the number of prospective students who complete Phase I requirements exceeds the number of available slots, the college may use a competitive admission/selection process to include a personal interview.

2. Selected learning experiences (clinical education) will be provided at cooperating emergency medical care providers. Students are responsible for providing their own transportation to these sites.
3. The program requires that students maintain a high level of academic and clinical performance. Failure to meet these standards will prevent normal progression through the program.
4. Applicants are responsible for submitting all the necessary records to the Admissions Office.
5. Applications must be updated annually by applicants who were not accepted the previous year.
6. Applicants may take non-EMS, general education and related course work prior to being accepted into the program.
7. All students accepted into the program must successfully obtain EMT-Basic certification upon completion of the first semester. Failure to do so will prevent progression through the program.
8. Students who already hold current EMT-Basic or EMT Intermediate (state or national) may be eligible for advanced placement credit.
9. Current high school students meeting program requirements may only be accepted into EMS certificate program

#### BRIDGING PROGRAM COURSE WORK

The Emergency Medical Science Bridging program is designed to allow a currently certified, non-degreeed EMT paramedic to earn a two-year associate of applied science degree in Emergency Medical Science. Bridging students have attained a Paramedic certification through a continuing education certificate program and passed the North Carolina National Registry, or another state certification examination.

To be eligible for the program, students must:

1. Meet SCC's institutional requirements for admission as an EMS student.
2. Hold current certification as an EMT-Paramedic.
3. Hold current certificate in the following:
  - a) Advanced Cardiac Life Support (ACLS)
  - b) Basic Trauma Life Support or Prehospital Trauma Life Support (BTLS-PHTLS)
  - c) Pediatric Advanced Life Support (PALS)
 (The certifications above are core competency skills in EMS that are the equivalent of 45 semester hours of EMS credit.)
4. Two letters of reference will be required: one from an immediate supervisor and one from the service's Medical Director attesting to the individual's competence.
5. Minimum 1,000 hours as field medic completed at time of application.

#### GENERAL EDUCATION COURSES

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	168	Anatomy and Physiology I	3	3	0	4
BIO	169	Anatomy and Physiology II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
PSY	150	General Psychology	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	20	8	0	23

**EMERGENCY MEDICAL SCIENCE COURSES**

EMS	140	Rescue Scene Management	1	3	0	2
EMS	235	EMS Management	2	0	0	2
EMS	280	EMS Bridging Course	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	5	5	0	7

Total Semester Hour Credits: 30

**NOTES**

A student who holds an active, basic or intermediate level of state certification may be eligible for advance placement credit. Student must provide an official copy of current/active licensure or certification and proof of training completed to the Admissions Office. A grade of “S” will be awarded for all courses that cover subject matter demonstrated mastered by the attainment and proof of current/active licensure or certification.

All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student’s ability to progress in the program.

All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

**FACULTY**

**Tony Belcher, Co-Program Coordinator**

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(828) 339.4309 or (800) 447.4091, ext. 4309

**Eric Hester, Co-Program Coordinator**

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The Environmental Science Technology curriculum is designed to prepare individuals for employment in environmental testing/consulting and related industries. Major emphasis is placed on biological and chemical evaluation of man's impact on his environment.

Course work includes general education, computer applications, biology, chemistry, industrial safety, and an extensive array of detailed environmentally specific classes.

Graduates should qualify for numerous positions within the industry. Employment opportunities include, but are not limited to, the following: Chemical Analysis, Biological Analysis, Water/Wastewater Treatment, EPA Compliance Inspection, Hazardous Material Handling, Waste Abatement/Removal, and Contaminated Site Assessment/Remediation. This program is offered in conjunction with Blue Ridge Community College.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A20140

#### FALL SEMESTER 1 - Southwestern Community College

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	0	3	1
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
ENG	111	Expository Writing	3	0	0	3
<u>Choose one of the following:</u>						
ACA	111	College Student Success	1	0	0	1
ACA	115	Success & Study Skills	0	2	0	1
<u>Choose one of the following:</u>						
MAT	121	Algebra/Trigonometry I	2	2	0	3
MAT	161	College Algebra	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			11-13	3-7	3	15

#### SPRING SEMESTER 1 - Southwestern Community College

BIO	111	General Biology I	3	3	0	4
CHM	132	Organic and Biochemistry	3	3	0	4
ENG	114	Professional Research & Reporting	3	0	0	3
***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			15	6	0	17

#### SUMMER SEMESTER - Blue Ridge Community College

CIS	110	Introduction to Computers	2	2	0	3
***	***	Major Course Elective	<u>2-5</u>	<u>0-3</u>	<u>0-30</u>	<u>6</u>
Totals			4-7	2-5	0-30	9

#### FALL SEMESTER 2 - Blue Ridge Community College

BIO	240	Waste Management	3	0	0	3
EHS	114	OSHA Regulations	4	0	0	4
ENV	218	Environmental Health	3	0	0	3
PHS	130	Earth Science	3	2	0	4
***	***	Major Course Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			16	2	0	17



**SPRING SEMESTER 2 - Blue Ridge Community College**

ENV	214	Water Quality	3	2	0	4
ENV	222	Air Quality	3	2	0	4
ENV	228	Environmental Issues	1	0	0	1
ENV	226	Environmental Law	3	0	0	3
		Totals	10	4	0	12

Total Semester Hour Credits: 70

**CHOOSE ELECTIVE HOURS FROM THE FOLLOWING COURSES**

(Advisor approval required)

BIO	112	General Biology II	3	3	0	4
BIO	120	Introduction to Botany	3	3	0	4
BIO	130	Introduction to Zoology	3	3	0	4
BIO	145	Ecology	3	3	0	4
BIO	170	Introduction to Microbiology	3	3	0	4
COE	111	Co-op Work Experience I	0	0	10	1
COE	112	Co-op Work Experience I	0	0	20	2
COE	113	Co-op Work Experience II	0	0	30	3
EHS	112	Industrial Hygiene	5	0	0	5
EHS	215	Incident Management	3	2	0	4
ENV	224	Land Resource Management	3	2	0	4
ENV	236	Wetlands Science	2	2	0	3
FOR	171	Introduction to Forest Resources	3	0	0	3
GIS	111	Introduction to GIS	2	2	0	3
MAT	161A	College Algebra Lab	0	2	0	1

Degree awarded by Blue Ridge Community College

**ADVISOR**

**Deanne Oppermann**

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(828) 339.4298 or (800) 447.4091, ext. 4298

The General Occupational Technology curriculum provides individuals with an opportunity to upgrade their skills and to earn an associate degree by taking courses suited for their occupational interests and/or needs.

The curriculum content will be individualized for students according to their occupational interests and needs. A program of study for each student will be designed from associate degree level courses offered by the College on an approved program of study.

Graduates will become effective workers, better qualified for advancements within their field of employment, and qualified for a wide range of entry-level and advanced employment opportunities.

## ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55280

### I. GENERAL EDUCATION

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Credit</u>
ENGLISH - Six SHC required for AAS degree.					
ENG	111	Expository Writing	3	0	3
ENG	114	Professional Research and Reporting	3	0	3
Humanities/Fine Arts - Three Semester Hour Credits required for AAS degree.					
***	***	Humanities Elective	3	0	3
Social/Behavioral Science - Three Semester Hour Credits required for AAS degree.					
***	***	Social Science Elective	3	0	3
Natural Science/Mathematics -Three Semester Hour Credits required for AAS degree.					
MAT	110	Mathematical Measurement	2	2	3
(A higher level Math course may substitute for MAT 110)					

General Education Totals: 15/16

### II. CURRICULUM MAJOR HOURS

The student must complete a minimum of 49 semester hour credits from a combination of major courses for curricula approved to be offered by the college.

Total Curriculum Major Hour Credits: 49

### III. OTHER MAJOR REQUIRED COURSES (FOR THE AAS DEGREE)

ACA	111	College Student Success	1	0	1
<u>or</u>					
ACA	115	Success & Study Skills	0	2	1
CIS	111	Basic PC Literacy	1	2	2
<u>or</u>					
CIS	110	Introduction to Computers	2	2	3

Total Other Major Hours: 3-4

Total Semester Hour Credits: 67-68

### ADVISOR

Mitch Fischer, Dean of Health Sciences

mfischer@southwesterncc.edu

(828) 339.4331 or (800) 447.4091, ext. 4331

The Health Information Technology curriculum provides individuals with the knowledge and skills to process, analyze, abstract, compile, maintain, manage, and report health information.

Students will supervise departmental functions; classify, code, and index diagnoses and procedures; coordinate information for cost control, quality management, statistics, marketing, and planning; monitor governmental and non-governmental standards; facilitate research; and design system controls to monitor patient information security.

Graduates of this program may be eligible to write the national certification examination to become a Registered Health Information Technician (RHIT)\*. Employment opportunities include hospitals, rehabilitation facilities, nursing homes, health insurance organizations, outpatient clinics, physicians' offices, hospice, and mental health facilities. SCC student pass rate for 2011 RHIT exam was 100%.

Graduates with the coding diploma may choose to take a national coding certification examination to become a Certified Coding Specialist (CCS). The HIT program is accredited by Commission on Accreditation for Health Informatics and Information Management (CAHIIM).

## ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45360

### FALL SEMESTER I

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy and Physiology I	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
HIT	110	Fundamentals of HIM	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
		Totals	15	5	0	17

### SPRING SEMESTER I

BIO	169	Anatomy and Physiology II	3	3	0	4
ENG	114	Professional Research & Reporting	3	0	0	3
HIT	114	Health Data Systems/Standards	2	3	0	3
MAT	110	Mathematical Measurement	2	2	0	3
MED	122	Medical Terminology II	3	0	0	3
		Totals	13	8	0	16

### SUMMER SEMESTER

HIT	112	Health Law & Ethics	3	0	0	3
HIT	220	Health Informatics and EHR's	1	2	0	2
HIT	226	Principles of Disease	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	10	2	0	11

### FALL SEMESTER 2

HIT	122	Professional Practice Experience I	0	0	3	1
HIT	211	ICD Coding	2	6	0	4
HIT	216	Quality Management	1	3	0	2
HIT	218	Management Principles in HIT	3	0	0	3
HIT	221	Life Cycle of EHR	2	2	0	3
***	***	Humanities Elective	3	0	0	3
		Totals	11	11	3	16

**SPRING SEMESTER 2**

HIT	124	Professional Practice Experience II	0	0	3	1
HIT	210	Healthcare Statistics	2	2	0	3
HIT	214	CPT/Other Coding Systems	1	3	0	2
HIT	215	Reimbursement Methodology	1	2	0	2
HIT	222	Professional Practice Experience III	0	0	6	2
HIT	280	Professional Issues	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		Totals	6	7	9	12

Total Semester Credit Hours: 72

**ADMISSIONS CRITERIA**

The applicant must:

1. Complete an application for admission to the College.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College's Admissions Office.
4. Have a grade point average of 2.0 or higher on a 4.0 scale of the most recent academic transcript (high school or postsecondary).
5. Meet the Southwestern Community College Placement Test requirement.  
This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, it is recommended that you enroll in and successfully complete the appropriate developmental coursework. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
  - b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.

**NOTES**

1. Applicants should be able to demonstrate typing competence.
2. Applicants are responsible for submitting all the necessary records to the College Registrar's Office.
3. Applications must be updated annually by applicants who were not accepted the previous year.
4. Applicants may take non Health Information Technology general education and related coursework prior to being accepted into the program.
5. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
6. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/ or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

**PROFESSIONAL PRACTICE PREREQUISITES**

A student must earn a final grade of “C” or better in the HIT and related courses to progress in the program.

Also, prior to Professional Practice, the student must have completed SCC’s health forms by the appropriate medical personnel. These completed forms must indicate that the student is capable of meeting the health requirements of the program. Students must also purchase liability insurance through SCC’s Business Office.

Due to limited Professional Practice slots, the program is limited on the number of students that can participate in these courses. If there are more students ready to enter Professional Practice than there are clinical slots, then selection will be based on objective criteria, including GPA and progression in the program.

**FACULTY**

**Penny Wells, Program Coordinator**

[pwells@southwesterncc.edu](mailto:pwells@southwesterncc.edu)

(828) 339.4362 or (800) 447.4091, ext. 4362

**Kimberly Rice**

[krice@southwesterncc.edu](mailto:krice@southwesterncc.edu)

(828) 339.4263 or (800) 447.4091, ext. 4263

## HEALTH INFORMATICS

The Health Informatics certificate will provide individuals with the knowledge and skills to assess the environment of clinical practice, make recommendations for adoption of related technology, and lead the implementation of IT projects related to the collection, storage, and management of patient data within electronic health record systems.

Course work includes data collection, data sets and reporting for compliance, workflow analysis, the system development lifecycle with emphasis on impact within the clinical setting, vendor selection process, training of end users, and skills/tools used to manage IT projects.

Upon completion, the student will be able to explain data needs, capture methodology and retention of patient clinical data, perform an environmental assessment of data needs, prioritize clinical needs to determine vendor product selection, develop a plan for end user education/training, and create supporting end user training documentation. Opportunities would exist within large healthcare organizations, physician practices, clinics and vendor sales.

**CERTIFICATE - C453601****FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
HIT	225	Healthcare Informatics	3	2	0	4
HIT	221	Lifecycle of EHR	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	5	4	0	7

**SPRING SEMESTER 1**

HIT	227	Informatics Project Mgt	2	2	0	3
HIT	114	Health Data Systems/Standards	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	4	5	0	6

**SUMMER SEMESTER 1**

HIT	112	Health Law & Ethics	3	0	0	3
HIT	220	Health Informatics & EHR's	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
		Totals	4	2	0	5

Total Semester Hour Credits: 18

**ADMISSIONS CRITERIA**

The applicant must:

1. Complete an application for admission to the College.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College's Admissions Office.
4. Have a grade point average of 2.0 or higher on a 4.0 scale of the most recent academic transcript (high school or postsecondary).
5. Meet the Southwestern Community College Placement Test requirement. This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, it is recommended that you enroll in and successfully complete the appropriate developmental coursework. If you are unsuccessful

HEALTH INFORMATICS

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in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.

- b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See Admissions section for additional details
- c) Successful completion of a college-level math, algebra, English and computer literacy course.

**NOTES**

1. Applicants are responsible for submitting all the necessary records to the College Registrar's Office.
2. Applications must be updated annually by applicants who were not accepted the previous year.
3. Health Professionals may be able to advance place out of some courses. Coursework required will be program specific. A grade of "S" will be awarded for all courses that cover subject matter demonstrated mastered by the attainment and proof of current/active licensure or certification or degree.

**FACULTY**

**Penny Wells, Program Coordinator**

[pwells@southwesterncc.edu](mailto:pwells@southwesterncc.edu)

(828) 339.4362 or (800) 447.4091, ext. 4362

**Kimberly Rice**

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(828) 339.4263 or (800) 447.4091, ext. 4263

## MEDICAL CODING

The program requires that students maintain a high level of academic and clinical performance. Failure to meet these standards will prevent normal progression through the program.

## DIPLOMA - D45360

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/hit-medical-coding-diploma>

## FALL SEMESTER I

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	168	Anatomy and Physiology I	3	3	0	4
ENG	111	Expository Writing	3	0	0	3
HIT	110	Fundamentals of HIM	3	0	0	3
HIT	211	ICD Coding	2	6	0	4
MED	121	Medical Terminology I	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	14	9	0	17

## SPRING SEMESTER I

BIO	169	Anatomy and Physiology II	3	3	0	4
HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	124	Professional Practice Experience II	0	0	3	1
HIT	214	CPT/Other Coding Systems	1	3	0	2
HIT	215	Reimbursement Methodology	1	2	0	2
HIT	222	Professional Practice Experience III	0	0	6	2
MED	122	Medical Terminology II	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	10	11	9	17

## SUMMER SEMESTER I

CIS	110	Introduction to Computers	2	2	0	3
HIT	112	Health Law & Ethics	3	0	0	3
HIT	226	Principles of Disease	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	8	2	0	9

Total Semester Hour Credits: 43

## FACULTY

**Penny Wells, Program Coordinator**

[pwells@southwesterncc.edu](mailto:pwells@southwesterncc.edu)

(828) 339.4362 or (800) 447.4091, ext. 4362



The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45380

#### FALL SEMESTER I

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	111	Basic PC Literacy	1	2	0	2
HSE	110	Introduction to Human Services	2	2	0	3
HSE	112	Group Process I	1	2	0	2
HSE	123	Interviewing Techniques	2	2	0	3
PSY	150	General Psychology	3	0	0	3
SAB	110	Substance Abuse Overview	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	8	0	16

#### SPRING SEMESTER I

ENG	111	Expository Writing	3	0	0	3
HSE	212	Group Process II	1	2	0	2
HSE	225	Crisis Intervention	3	0	0	3
HSE	227	Children & Adolescents in Crisis	3	0	0	3

#### Choose one of the following:

PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3

#### Choose one of the following:

SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	16	2	0	17

#### SUMMER SEMESTER

ENG	114	Professional Research and Reporting	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	0	0	9

**FALL SEMESTER 2**

COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
HSE	125	Counseling	2	2	0	3
HSE	155	Community Resources Management	2	0	0	2
HSE	210	Human Services Issues	2	0	0	2
HSE	220	Case Management	2	2	0	3
HSE	240	Issues in Client Services	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	4	10	15

**SPRING SEMESTER 2**

COE	121	Co-op Work Experience II	0	0	10	1
COE	125	Work Experience Seminar II	1	0	0	1
DDT	110	Developmental Disabilities	3	0	0	3
GRO	120	Gerontology	3	0	0	3
HSE	242	Family Systems	3	0	0	3
HSE	250	Financial Services	2	0	0	2
HSE	255	Health Problems & Prevention	2	2	0	3
SOC	210	Introduction to Sociology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	17	2	10	19

Total Semester Hour Credits: 76

**NOTES**

All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/ or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.

All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/ or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

\*Requires ACA 111 or HRD 3003 as a prerequisite.

**FACULTY**

**Eric Sarratt**

esarratt@southwesterncc.edu

(828) 339.4397 or (800) 447.4091, ext. 4397

The Human Services Technology/Substance Abuse concentration prepares students to assist in drug and alcohol counseling, prevention-oriented educational activities, rehabilitation with recovering clients, managing community-based programs, counseling in residential facilities, and pursuit of four-year degrees.

Course work includes classroom and experiential activities oriented toward an overview of chemical dependency, psychological/sociological process, the twelve Core Functions, intervention techniques with individuals in groups, and follow-up activities with recovering clients.

Graduates should qualify for positions as substance abuse counselors, DUI counselors, halfway house workers, residential facility employees, and substance education specialists. With educational and clinical experiences, graduates can obtain certification by the North Carolina Substance Abuse Board.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A4538E

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	111	Basic PC Literacy	1	2	0	2
HSE	110	Introduction to Human Services	2	2	0	3
HSE	112	Group Process I	1	2	0	2
HSE	123	Interviewing Techniques	2	2	0	3
PSY	150	General Psychology	3	0	0	3
SAB	110	Substance Abuse Overview	3	0	0	3
		Totals	12	8	0	16

#### SPRING SEMESTER 1

ENG	111	Expository Writing	3	0	0	3
HSE	225	Crisis Intervention	3	0	0	3
SAB	120	Intake and Assessment	3	0	0	3
SAB	135	Addictive Process	3	0	0	3
<u>Choose one of the following:</u>						
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
<u>Choose one of the following:</u>						
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
		Totals	21	0	0	18

#### SUMMER SEMESTER

ENG	114	Professional Research and Reporting	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
		Totals	6	0	0	6

#### FALL SEMESTER 2

COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
HSE	125	Counseling	2	2	0	3
HSE	210	Human Services Issues	2	0	0	2
SAB	125	SAB Case Management	2	2	0	3
SAB	220	Group Techniques/Therapy	2	2	0	3
SAB	240	SAB Issues in Client Services	3	0	0	3
		Totals	12	6	10	16

**SPRING SEMESTER 2**

COE	121	Co-op Work Experience II	0	0	10	1
COE	125	Work Experience Seminar II	1	0	0	1
HSE	242	Family Systems	3	0	0	3
HSE	255	Health Problems & Prevention	2	2	0	3
SAB	210	Substance Abuse Counseling	2	2	0	3
SOC	210	Introduction to Sociology	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	14	4	10	17

Total Semester Hour Credits: 73

**CERTIFICATE C4538E**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/hst-substance-abuse-treatment-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
SAB	110	Substance Abuse Overview	3	0	0	3
SAB	125	SAB Case Management	2	2	0	3
SAB	135	Addictive Process	3	0	0	3
SAB	210	Substance Abuse Counseling	2	2	0	3
SAB	220	Group Techniques/Therapy	2	2	0	3
SAB	240	SAB Issues & Client Services	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15	6	0	18

Total Semester Hour Credits: 18

**NOTES**

All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.

All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/ or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

\*Requires ACA 111 or HRD 3003 as a prerequisite.

**FACULTY**

**Eric Sarratt**

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(828) 339.4397 or (800) 447.4091, ext. 4397

The curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with infants and toddlers.

Course work includes infant/toddler growth and development: physical/nutritional needs of infants and toddlers; safety issues in the care of infants and toddlers; care and guidance; communication skills with families and children; design an implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start Programs, and other infant/toddler programs.

### **CERTIFICATE C55290**

[Gainful Employment Compliance Information](http://www.southwesterncc.edu/program/infanttoddler-care-certificate) - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/infanttoddler-care-certificate>

#### **FALL SEMESTER I**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
EDU	119	Introduction to Early Childhood Education	4	0	0	4
EDU	144	Child Development I	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	7	0	0	7

#### **SPRING SEMESTER I**

EDU	131	Child, Family & Community	3	0	0	3
EDU	153	Health, Safety & Nutrition	3	0	0	3
EDU	234	Infant, Toddlers, & Twos	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	0	0	9

Total Semester Hour Credits: 16

#### **FACULTY**

**Linda Aiken, Program Coordinator**

[lindaa@southwesterncc.edu](mailto:lindaa@southwesterncc.edu)

(828) 339.4220 or (800) 447.4091, ext. 4220

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, medical transcription, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45400

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	163	Basic Anatomy and Physiology I	4	2	0	5
ENG	111	Expository Writing	3	0	0	3
HRD	***	College Student Success	0	0	0	0
MED	110	Orientation to Medical Assisting	1	0	0	1
MED	118	Medical Law and Ethics	2	0	0	2
MED	121	Medical Terminology I	3	0	0	3
MED	130	Admin. Office Procedures I ~ 1st Session	1	2	0	2
MED	131	Admin. Office Procedures II ~ 2nd Session	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
		Totals	15	6	0	18

#### SPRING SEMESTER 1

MAT	110	Mathematical Measurement	2	2	0	3
MED	122	Medical Terminology II	3	0	0	3
MED	140	Exam Room Procedures I	3	4	0	5
MED	150	Laboratory Procedures I	<u>3</u>	<u>4</u>	<u>0</u>	<u>5</u>
		Totals	11	10	0	16

#### SUMMER SEMESTER

ENG	114	Professional Research and Reporting	3	0	0	3
MED	250	Laboratory Procedures II	3	4	0	5
MED	270	Symptomatology	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	8	6	0	11

#### FALL SEMESTER 2

MED	232	Medical Insurance Coding	1	3	0	2
MED	240	Exam Room Procedures II	3	4	0	5
MED	272	Drug Therapy	3	0	0	3
NUT	110	Nutrition	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	10	7	0	13

#### SPRING SEMESTER 2

MED	114	Professional Interaction & Healthcare	1	0	0	1
MED	260	MED Clinical Practicum	0	0	15	5
MED	262	Clinical Perspectives	1	0	0	1
MED	264	Medical Assisting Overview	2	0	0	2
MED	276	Patient Education	1	2	0	2
PSY	150	General Psychology	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	11	2	15	17

Total Semester Hour Credits: 75

**MEDICAL ASSISTANT CERTIFICATE – C45400 & C45400CP\***

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
MED	110	Orientation to Medical Assisting	1	0	0	1
MED	118	Medical Law & Ethics	2	0	0	2
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
MED	130	Admin. Office Procedures I ~ 1st Session	1	2	0	2
MED	131	Admin. Office Procedures II ~ 2nd Session	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
		Totals	11	4	0	13

Total Semester Hour Credits: 13

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**ADMISSION REQUIREMENTS**

Admissions Criteria: The program has a limited enrollment and only admits a class in the fall of each year. Applications and supporting documents listed in Phase I below must be completed and submitted by April 1 of the calendar year in which the student wishes to enroll in the program. If all slots have not been filled after the above deadline, there may be extensions to the deadline. Please check with the Admissions Office about the status of the program.

**PHASE I – to be completed by April 1**

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.0 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.

This may be met by one of the following methods:

- a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
- b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
- c) Successful completion of a college-level math, algebra, English and computer literacy course.

6. It is recommended that the applicant spend observation time in a medical assisting environment.
7. Take the Health Occupations Aptitude Exam. The HOAE must have been taken within the past three years and may only be taken once per academic year (See HOAE requirements in Admission/Enrollment section). The cost of this test is \$20.00. The applicant will be required to pay this fee when registering for the test. Details for testing dates and times can be secured from the Advisor. This is not a pass or fail test. It is used to measure your potential to be successful in the program.

### PHASE II

Those individuals who have completed all parts of Phase I by the appropriate deadlines will be scheduled for a personal interview. Applicants will be notified of date and time.

### PHASE III

Those individuals who are notified of acceptance status will be provided with SCC health forms to be completed by the appropriate medical personnel. The completed medical forms must indicate that you are capable of meeting the physical requirements for the program. The deadline for submitting the completed forms to the program director is August 1.

### NOTES

1. Applicants are responsible for submitting all the necessary records to the Registrar's Office.
2. Applications must be updated annually by applicants who were not accepted the previous year.
3. Applicants may take non-medical assisting, general education and related coursework prior to being accepted into the program.
4. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/ or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
5. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

### FACULTY

**Melissa Allison-Brooks, Program Coordinator**

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(828) 339.4391 or (800) 447.4091, ext. 4391



The Medical Laboratory Technology curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and immunohematology that may be used in the maintenance of health and diagnosis/treatment of disease.

Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance and reporting/recording and interpreting findings involving tissues, blood, and body fluids.

Graduates may be eligible to take the examinations given by the Board of Certification of the American Society of Clinical Pathology. Employment opportunities include laboratories in hospitals, medical offices, industry, and research facilities.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45420

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	111*	General Biology I	3	3	0	4
HRD	***	College Student Success	0	0	0	0
MLT	110**	Introduction to MLT	2	3	0	3
MLT	116	Anatomy & Medical Terminology	5	0	0	5
MLT	253**	MLT Practicum I (Phlebotomy clinic)	0	0	9	3
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	13	6	9	18

#### Notes:

1. Students successfully completing the first semester MLT courses and PSY 150 are eligible to take the national certification exam for phlebotomy.
2. The weekly hours for class/lab/clinical are based on a 16 week semester. Weekly hour requirements will increase if course is offered over a period less than 16 weeks.

#### SPRING SEMESTER 1

MLT	118	Medical Lab Chemistry	3	0	0	3
MLT	120	Hematology/Hemostasis I	3	3	0	4
MLT	125	Immunohematology I	4	3	0	5
MLT	140	Introduction to Microbiology	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	12	9	0	15

#### SUMMER SEMESTER

ENG	111	Expository Writing	3	0	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	6	0	0	6

#### FALL SEMESTER 2

ENG	114	Professional Research & Reporting	3	0	0	3
MLT	111	Urinalysis & Body Fluids	1	3	0	2
MLT	130	Clinical Chemistry I	3	3	0	4
MLT	220	Hematology/Hemostasis II	2	3	0	3
MLT	240	Special Clinical Microbiology	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	11	12	0	15

#### SPRING SEMESTER 2\*\*\*

MLT	215	Professional Issues	1	0	0	1
MLT	263	MLT Practicum II (Hematology/Hemostasis)	0	0	9	3
MLT	271	MLT Practicum III (Urinalysis/Serology)	0	0	3	1
MLT	272	MLT Practicum III (Chemistry)	0	0	6	2
MLT	273	MLT Practicum III (Immunohematology)	0	0	9	3
MLT	274	MLT Practicum III (Microbiology)	<u>0</u>	<u>0</u>	<u>12</u>	<u>4</u>
		Totals	1	0	39	14

Total Semester Hour Credits: 68

\* BIO 111, General Biology (minimum 4 credits) is not available online through SCC. It may be taken on the Jackson Campus or through another local college or university. Credits earned at another college must be transferred to SCC.

\*\* MLT 110 in Fall Semester 1 runs for first 8 weeks of the semester. MLT 253 in Fall Semester 1 runs for the latter 8 weeks of the Fall semester.

\*\*\*Spring Semester 2, the student will spend the full 16 weeks (39 hours/week) in clinical rotations along with completing the MLT 215 course (1 hour/week) online. The clinical rotations will consist of the following: Hematology/Hemostasis, Urinalysis/Serology, Chemistry, Immunohematology and Microbiology.

### ADMISSIONS CRITERIA

The program has a limited enrollment and only admits a class in the fall of each year. Acceptance into the program is based on the following objective criteria:

- Completion of Phase I requirements.
- Highest GPAs (grade point averages).
- The completed medical forms must indicate that you are capable of meeting the physical requirements for the program.
- Students must be 18 years of age or older by August 15, the year they plan to attend the program, in order to be accepted into the MLT program for Fall Semester.

All Phase I requirements must be completed by March 1 of the year in which the student wishes to enroll in the program. Students who complete Phase I requirements after March 1 will be considered for acceptance if slots are available. Please check with the Admissions Office about the enrollment availability.

### PHASE I – To be completed by March 1

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.5 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.  
This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
  - b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.

6. Completion of 8 hours of observation is recommended (not required).
7. Have a computer (PC compatible) or access to a computer.
8. Have access to word processing and spreadsheet software and approved Internet browser.
9. Review and make sure you have access to the technical requirements necessary for online learning at <https://my.southwesterncc.edu/web/mycampus/home>
10. Have an approved laboratory site for performing the lab and clinical rotations if not able to attend on-campus labs.

## PHASE II

1. Review of applicant GPAs (grade point averages) by program director. Individuals will be selected based on GPA, not to be below a 2.5.
2. Admissions will mail out an Acceptance Packet to selected individuals. In order to confirm their slot, the individual must complete and return all required forms by the scheduled due dates noted in the Acceptance Packet. Students who fail to submit required paperwork by the stated due dates will not be able to register for curriculum courses.  
The Acceptance Packet includes:
  1. Provisional Acceptance Letter
  2. Acknowledgement of Acceptance form
  3. MLT labsite information form
  4. Medical and technical/academic standards form - Due August 1.
3. Students must sign the signature sheet at the end of the MLT Student Policy Manual and submit it to the program coordinator by August 1. The MLT Policy Manual may be found at <http://www.southwesterncc.edu/program/medical-laboratory-technology-online>
4. Accident and malpractice insurance must be purchased in the College Business Office at the time fall tuition is paid.

## NOTES

1. All components of Phase I must be completed before moving to the Phase II requirements.
2. Applicants are responsible for submitting all the necessary records to the College Business Office.
3. Applications must be updated annually by applicants who were not accepted the previous year.
4. Applicants may take non-Medical Laboratory, general education and related coursework prior to being accepted into the program.
5. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
6. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/ or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

### PROGRAM STRUCTURE

The program offers its MLT courses online. All non-MLT prefixed courses may be taken online as well. Any courses not taken at SCC must be transferred in with a grade of “C” or better and approved by the registrar’s office.

Labs are offered concurrently and can be completed on campus or in the student’s geographical area at a pre-approved clinical facility. Contact the program director for guidelines on selecting an off-campus clinical facility for performance of laboratory skills.

Clinical rotations take place in the first and final semester of the program and may be completed in the student’s geographical area at an approved clinical facility/affiliate. The clinical education will be provided at cooperating hospitals or other healthcare facilities. In the MLT program, the clinical rotations are spent in one or more clinical facilities for practical experience in the clinical laboratory, under supervision. During clinical education, the student will rotate through all departments of the laboratory including: Hematology, Hemostasis, Urinalysis, Chemistry, Phlebotomy, Microbiology, Serology, and Blood Bank. Emphasis is placed on attaining competency and proficiency in the performance of laboratory procedures, correlating theory and practice and demonstrating prescribed professional behavior.

### ACADEMIC STANDARDS

The program requires that students maintain a high level of academic and clinical performance. Students must maintain a semester and cumulative GPA of 2.5 on a 4.0 scale. Failure to meet these standards will prevent normal progression through the program.

### STUDENT POLICY MANUAL

The student policy manual is available online at <http://www.southwesterncc.edu/program/medical-laboratory-technology-online>. This manual outlines the policies and procedures to be followed over the course of the program. Students must sign the signature sheet at the end of the policy manual and submit it to the program director by August 1 of the year in which they plan to enroll.

### INSURANCE

Accident and malpractice insurance must be purchased prior to beginning the program. The insurance can be purchased in the College Business Office at the time fall semester tuition is paid.

### ACCREDITATION

The MLT program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The contact information is as follows: NAACLS, 8410 West Bryn Mawr Ave., Suite 670, Chicago, IL 60631 (733) 714.8880.

### FACULTY

**Andrea Kennedy, Program Coordinator**  
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**Dr. Michael Rohlfing, Medical Director**

**Dale Hall**  
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This curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations. Students can complete the courses required for this degree as online courses.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25310

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	164	Text Editing Applications	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	14	4	0	16

#### SPRING SEMESTER 1

ACC	120	Principles of Financial Accounting	3	2	0	4
CTS	130	Spreadsheets I	2	2	0	3
OST	131	Keyboarding	1	2	0	2
OST	149	Medical Legal Issues	3	0	0	3

#### Choose one of the following:

MAT	140	Survey of Mathematics	3	0	0	3
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OR

MAT	151	Statistics	3	0	0	3
MAT	151A	Statistics Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	12	6-8	0	15-16

#### SUMMER SEMESTER

MED	121	Medical Terminology I (1st half)	3	0	0	3
MED	122	Medical Terminology II (2nd half)	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	6	0	0	6

#### FALL SEMESTER 2

BUS	125	Personal Finance	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	148	Medical Coding Billing and Insurance	3	0	0	3
OST	184	Records Management	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	14	2	0	15

**SPRING SEMESTER 2**

BUS	260	Business Communication	3	0	0	3
OST	243	Medical Office Simulation	2	2	0	3
OST	289	Administrative Office Management	2	2	0	3
***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	13	4	0	15

Total Semester Hours Credit: 67-68

**FACULTY**

**Carolyn Porter**

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Diagnostic Medical Sonography or Ultrasound is a diagnostic medical procedure that uses high frequency sound waves to produce images of organs, tissue, or blood flow inside the body. This type of procedure is often referred to as a sonogram or ultrasound scan. Sonography is generally associated with obstetrics and the use of ultrasound imaging during pregnancy, but this technology has many other applications in the diagnosis and treatment of many medical conditions.

This program of study is designed to provide academic and clinical training in the field of general diagnostic sonography. Coursework includes an introduction to sonography and patient care, sonographic physics, abdominal sonography, obstetrical/gynecological sonography, and an introduction to vascular sonography.

Sonographers can choose to work in clinics, hospitals, private practice physician offices, public health facilities, mobile services, and other medical settings performing examinations in ultrasounds.

The sonography program is currently accredited by the Joint Review Committee on Education in Diagnostic Medical Sonography and the Commission on Accreditation of Allied health Education Programs. Upon graduation from the sonography program, you will be able to apply to take the national certification examinations offered by the ARDMS. By successfully completing the certification exams, you will be awarded the credential RDMS (Registered Diagnostic Medical Sonographer).

The average starting salary is approximately \$45,000/year.

#### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45440

**PRE-REQUISITE COURSES** - Courses must be completed with a minimum grade of C prior to admission to the Medical Sonography program.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	163	Basic Anatomy and Physiology	4	2	0	5
COM	140	Intro to Intercultural Communication	3	0	0	3
MAT	115	Mathematical Models	2	2	0	3
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
		Totals	12	6	0	15

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
ENG	111	Expository Writing	3	0	0	3
SON	110	Introduction to Sonography	1	3	3	3
SON	130	Abdominal Sonography I	2	3	0	3
SON	222	Selected SON Clinical Ed	0	0	6	2
		Totals	7	6	9	12

#### SPRING SEMESTER 1

SON	111	Sonographic Physics	3	3	0	4
SON	120	SON Clinical Education I	0	0	15	5
SON	131	Abdominal Sonography II	1	3	0	2
SON	140	Gynecological Sonography	2	0	0	2
		Totals	6	6	15	13

**SUMMER SEMESTER**

ENG	114	Professional Research and Reporting	3	0	0	3
PSY	150	General Psychology	3	0	0	3
SON	121	SON Clinical Education II	<u>0</u>	<u>0</u>	<u>15</u>	<u>5</u>
		Totals	6	0	15	11

**FALL SEMESTER 2**

SON	220	SON Clinical Education III	0	0	24	8
SON	225	Case Studies	0	3	0	1
SON	241	Obstetrical Sonography I	2	0	0	2
SON	250	Vascular Sonography	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		Totals	3	6	24	13

**SPRING SEMESTER 2**

SON	221	SON Clinical Education IV	0	0	24	8
SON	242	Obstetrical Sonography II	2	0	0	2
SON	289	Sonographic Topics	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		Totals	4	0	24	12

Total Semester Hour Credits: 76

**MISSION STATEMENT**

The mission of the Southwestern Community College’s Sonography program is to meet the needs of the students by offering innovative instruction through comprehensive educational practices that promote student achievement and academic excellence, which will enable the student to graduate with the necessary skills to succeed as a sonographer and/or to continue with other educational goals.

**GOALS**

1. To prepare competent entry level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.
2. To prepare students to meet the requirements of and pass the national examination offered by the American Registry for Diagnostic Medical Sonographers.
3. To foster independent thinking and life-long learning.

**ADMISSION CRITERIA**

It is important that all potential applicants for the Sonography Program understand the selective admissions process. Please review carefully the information regarding minimum requirements and other pertinent information. The sonography program has a limited enrollment of ten candidates that are admitted into the program in the fall of each year. Applications and supporting documents must be completed and submitted to the Admissions Office by March 15 of the year in which the student wishes to enroll in the program.

**PHASE I - To be completed by March 15**

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students



3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to ensure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.5 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.  
This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
  - b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.
6. Take the Health Occupations Aptitude Exam. The HOAE must have been taken within the past three years and may only be taken once per academic year (See HOAE requirements in Admission/Enrollment section). The cost of this test is \$20.00. The applicant will be required to pay this fee when registering for the test. Details for testing dates and times can be secured from the Advisor. This is not a pass or fail test. It is used to measure your potential to be successful in the program.
7. Complete a minimum of 2 hours (6 hours maximum) of observation/lab time in the Southwestern Community College Scanning Lab. The applicant will be asked to be a volunteer to be scanned during the lab time by a current sonography student. The instructors will be available during the lab session and the applicants are encouraged to ask question about the program at this time. A sign up sheet with the dates and times will be available outside the Program Coordinator's office. The observation hours will start in November and be available through March.
8. Applicants must be able to meet all Technical Standards required of the program. Those Standards are as follows:
  - Lift up to 50 pounds routinely
  - Able to reach, bend, and stoop often
  - Able to push and pull routinely
  - Have full use of both hands, wrists and shoulders
  - Distinguish audible sounds
  - Able to distinguish colors correctly
  - Work standing on the feet 80 percent of the time
  - Interact compassionately and effectively with the sick and injured
  - Communicate effectively with patients and other health care professionals
  - Organize and accurately perform the individual steps in a sonographic procedure in the proper sequence

**PHASE II**

The top 20 candidates who have completed all parts of Phase I by March 15 will be scheduled for a personal interview. The selected applicants will be notified of the date and time. Interviews are usually scheduled for late April. Applicants are ranked for interview using the following point system:

- GPA X 10 = 40 points (maximum)
- HOAE score = 15 points (maximum)
- Total = 55 points (maximum)

*Interview Point System:*

The following criterion is used for ranking students during the interview process:

High School Health Occupations course with a “C” or higher within past 5 years	5 pts
Bachelor’s Degree or Associate Degree	5 pts
Allied Health Degree	15 pts
Imaging Degree	20 pts
Medical Terminology college course	A (15 pts) B (10 pts) C (5 pts)
BIO 168 & BIO 169 or BIO 163	A (60 pts) B (40 pts) C (20 pts)
PHY 110/110A	30 pts
ENG 111	A (15 pts) B (10 pts) C (5 pts)
ENG 114	A (15 pts) B (10 pts) C (5 pts)
PSY 150	A (15 pts) B (10 pts) C (5 pts)
MAT 115 or higher	A (15 pts) B (10 pts) C (5 pts)
COM 140	A (15 pts) B (10 pts) C (5 pts)
Health Related Work Experience	15 pts
Interview	25 pts

After the interview process is completed and points have been totaled, the 10 applicants with the highest numerical scores will be accepted into the program. High school students selected for the program will be given provisional acceptance contingent upon graduation from high school.

Interviewed applicants who have not been assigned a space in the program will be placed on a waiting list. Should space become available, the next applicant on the list will be contacted for admission to the program.

**PHASE III**

Selected applicants will be notified by the Admissions Office of provisional acceptance to the program. Once an applicant returns the signed Acknowledgement of Acceptance form to the Admissions Office, they will be fully accepted into the program.

Accepted applicants will receive health forms in their provisional acceptance packet. The completed medical forms must indicate that you are capable of meeting the physical requirements for the program. These forms must be completed and returned to the Program Coordinator by August 1. Failure to complete the health packet may result in relinquishment of full acceptance status.

**CLINICAL EDUCATION**

Clinical education will be provided at cooperating health care facilities and other related settings within the area served by the College. Transportation and associated expenses are the sole responsibility of the student.

**NOTES**

1. Applicants are responsible for submitting all the necessary records to the Admissions Office.
2. Applications must be updated annually by applicants who were not accepted the previous year.
3. Applicants may take non-Medical Sonography, general education and related coursework prior to being accepted into the program.
4. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
5. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.
6. A student who presents problems of physical or emotional health at any time throughout the program and has not responded to appropriate treatment within a reasonable period of time may be required to withdraw from the program. Any student whose behavior conflicts with safety may also be required to withdraw from the program.

**FACULTY**

**Debbie Eavenson, Program Coordinator**

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**Jennifer Forrester**

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The Networking Technology curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

**ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25340**

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
NET	110	Networking Concepts	2	2	0	3
NOS	110	Operating System Concepts	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	13	7	0	16

**SPRING SEMESTER 1**

CIS	115	Introduction to Programming/Logic	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	8	0	15

**SUMMER SEMESTER**

BUS	110	Introduction to Business	3	0	0	3
***	***	Humanities Elective	3	0	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	0	0	9

**FALL SEMESTER 2**

CTS	120	Hardware/Software Support	2	3	0	3
CTS	285	Systems Analysis & Design	3	0	0	3
NET	125	Networking Basics	1	4	0	3
NET	126	Routing Basics	1	4	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	230	Windows Administration I	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	11	15	0	18

**SPRING SEMESTER 2**

NET	175	Wireless Technology	2	2	0	3
NET	225	Routing & Switching I	1	4	0	3
NET	226	Routing & Switching II	1	4	0	3
NET	289	Networking Project	1	4	0	3
NOS	231	Windows Administration II	2	2	0	3

Choose one of the following:

CSC	139	Visual BASIC Programming	2	3	0	3
CTS	286	Network Support	2	2	0	3
NET	113	Home Automation Systems	2	2	0	3
WEB	230	Implementing Web Servers	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	9	18-19	0	18

Total Semester Credit Hours: 76

**DIPLOMA D25340**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/networking-technologies-diploma>

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
NET	110	Networking Concepts	2	2	0	3
NOS	110	Operating System Concepts	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	9	7	0	12

**SPRING SEMESTER 1**

CIS	115	Introduction to Programming & Logic	2	3	0	3
CTS	120	Hardware/Software Support	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	11	11	0	15

**FALL SEMESTER 2**

NET	125	Networking Basics	1	4	0	3
NET	126	Routing Basics	1	4	0	3
NOS	230	Windows Administration 1	2	2	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	7	10	0	12

Total Semester Credit Hours: 39

**CISCO CERTIFICATE C25340C & C25340CP\***

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
NET	125	Networking Basics	1	4	0	3
NET	126	Routing Basics	1	4	0	3
NET	225	Routing and Switching I	1	4	0	3
NET	226	Routing and Switching II	<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>
		Totals	4	16	0	12

Total Semester Hour Credits: 12

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

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The Associate Degree Nursing curriculum provides knowledge and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

### **NURSING PROGRAM INFORMATION**

The philosophy of the Associate Degree Nursing Program is derived from statements about the health, quality of life, achievement of potential, the individual, environment, health, nursing, the practice, and education of the Associate Degree Nurse. Within this mission, the goal of nursing faculty is to promote the highest quality of nursing care to the individual, families and significant persons, and the community. The aim is to facilitate optimum health, quality of life and achievement of potential for the individual.

The Associate Degree Nursing program supports the mission of the North Carolina Community College System and the mission of Southwestern Community College. The faculty is committed to providing accessible high quality nursing education to meet the diverse and changing health-care needs of the service area and to promoting the development of qualified students prepared for the professional role of registered nurse at the entry level.

Graduates of this program receive an Associate in Applied Science degree with a nursing major (ADN), and meet the education requirements to take the National Council Licensure Examination (NCLEX-RN) for licensure as a registered nurse. Successful completion of the nursing program does not guarantee licensure. The Board of Nursing may not issue a license to an applicant who has been convicted of a felony.

Persons interested in entering the nursing program are encouraged to apply. Due to enrollment limitations, interested individuals are urged to begin the process of application as early as possible. Information on nursing and the program requirements are available in the Nursing Department. Applications should be submitted online.

### **THE SCHEDULE**

The schedule is designed for full-time study. Non-nursing courses in the curriculum may be completed at the college of enrollment or wherever is most convenient for the student. Students, however, are responsible for having their transcripts for non-nursing courses taken at other colleges sent to the college of enrollment. Clinical experiences are provided in a variety of settings throughout Western North Carolina.

The structure of the nursing program permits individuals to make choices about their career in health care. After successful completion of one semester, a student is eligible to test for listing as a Nurse Aide I; after two semesters students may apply for Nurse Aide II listing.

### **ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45110**

Non-nursing classes may be taken prior to the time they are scheduled in the curriculum but if they are not, they must be taken at the times listed next. All nursing courses must be taken in the order they appear in the curriculum.

Prerequisite: Students must take ACA 111 prior to starting the Nursing curriculum.

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	168	Anatomy and Physiology I	3	3	0	4
ENG	111	Expository Writing	3	0	0	3
NUR	111	Intro to Health Concepts	4	6	6	8
<u>Choose one of the following:</u>						
MAT	110	Mathematical Measurements	2	2	0	3
MAT	115	Mathematical Models	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	12	11	6	18

**SPRING SEMESTER 1**

BIO	169	Anatomy and Physiology II	3	3	0	4
NUR	112	Health-Illness Concepts ~ 1st 8 weeks	3	0	6	5
NUR	114	Holistic Health Concepts ~ 2nd 8 weeks	3	0	6	5
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	3	12	17

**SUMMER SEMESTER**

ENG	114	Professional Research and Reporting	3	0	0	3
NUR	113	Family Health Concepts	<u>3</u>	<u>0</u>	<u>6</u>	<u>5</u>
		Totals	6	0	6	8

**FALL SEMESTER 2**

BIO	175	General Microbiology	2	2	0	3
NUR	211	Health Care Concepts	3	0	6	5
NUR	212	Health System Concepts	3	0	6	5
<u>Choose one of the following:</u>						
CIS	110	Introduction to Computers	2	2	3	3
CIS	111	Basic PC Literacy	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
		Totals	9-10	4	12-15	15-16

**SPRING SEMESTER 2**

NUR	213	Complex Health Concepts	4	3	15	10
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	7	3	15	13

Total Semester Hour Credits: 71-72

**ADMISSIONS REQUIREMENTS**

All applicants for admission to the Associate Degree Nursing program will follow a standard admission process, be given identical information regarding the nursing program and the criteria for admission, and assigned a nursing advisor who will follow the applicant through the pre-nursing period. It is highly recommended that interested applicants contact their advisor for assistance at their earliest opportunity.

When the individual begins the process, whether it be through the Admissions Office or the Nursing Department, information and instructions are furnished to the applicant along with the explanation of the program's structure and the next step in the admissions process. The applicant will also be referred from Admissions to Nursing or Nursing to Admissions for further information and processing. Any applicant not selected for entry into the nursing program must submit a new application by the next Jan. 31 deadline to be considered for entry in the Fall of that year.



**PHASE I – To be completed by January 31**

The criteria for admission to the nursing program include:

- A completed college Application for Admission.
- Evidence of high school graduation or completion of GED certificate (High School Seniors must send an interim transcript by January 31).
- Official copies of all high school and college course transcripts (High school seniors must have a final transcript sent within one month of graduation).
- Satisfactory scores on the college placement test or completion of necessary remediation. (See SCC Placement Test Requirements in Admission/Enrollment section).
- A minimum score of 8 on the Health Occupations Aptitude Examination (HOAE). The HOAE must have been taken within the past three years and may only be taken once per academic year. (See HOAE requirements in Admission/Enrollment section.)
- Evidence of completion of general chemistry at the high school level or above with a grade of “C” or better.
- Evidence of completion of ACA 111 or equivalent course with a grade of “C” or better.
- Evidence of a cumulative GPA of 2.5 or greater on a 4-point scale on the most recent transcript with 10 semester hours completed excluding developmental courses.

Once the program deadline has passed and records have been reviewed, applicants will receive a letter stating their eligibility status.

**PHASE II**

Applicants who complete Phase I by the January 31 deadline will be scored in accordance with the following selection system criteria:

- Up to 15 points for Health Occupation Aptitude Exam
- Grade point average is multiplied by 10: Up to 40 points
- Up to 10 points for college courses completed with a grade of “C” or better
  - 2 points – BIO 168
  - 2 points – BIO 169
  - 2 points – BIO 175
  - 2 points – CHM 131 & 131A or an equivalent or higher course
  - 2 points – MAT 110 or higher math course
- Up to 3 points for other educational experience or current licensure \*\*
  - 1 point – Health Occupations I or Allied Health Science I
  - 1 point – Health Occupations II or Allied Health Science II
  - 1 point – LPN
  - 1 point – Nurse Aide I/Nurse Aide II
  - 1 point – EMT
  - 1 point – Paramedic
  - 1 point – Certified Medical Assistant
  - 1 point – Bachelor Degree or higher
- \*\* Documentation of current licensure must be submitted to admissions prior to the January 31 deadline in order to receive points.
- Up to 25 points for interview (39 highest ranking candidates will be interviewed)

After the interview process is completed and points have been totaled, the applicants with the highest numerical scores will be accepted into the nursing program (up to 26 students). High school students selected for the program will be given provisional acceptance contingent upon graduation from high school.

### PHASE III

Selected applicants will be notified by the Admissions Office of provisional acceptance to the program. Once an applicant returns the signed Acknowledgement of Acceptance form to the Admissions Office, they will be fully accepted into the nursing program.

Accepted applicants will receive health forms in their provisional acceptance packet. These forms must be completed and returned to the Nursing Program Coordinator within 30 days. The Program Coordinator will contact the applicant if any problems are noted on the forms and will allow 30 days for resolution of these problems. Failure to complete the health packet may result in relinquishment of full acceptance status. Accepted applicants will also be required to purchase malpractice insurance and accident or personal health insurance in August.

### NOTES

This information applies to all Nursing students.

- All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
- All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.
- At any time throughout the program, a student who presents physical or emotional health problems and has not responded to appropriate treatment within a reasonable period of time will be required to withdraw from the program. Any student whose behavior conflicts with safety essential to nursing practice may also be required to withdraw from the program.

### RE-ENTRY/ADVANCED PLACEMENT/TRANSFER PROCESS

Due to the limited number of students who may be enrolled in the nursing program, re-entry, advanced placement and transfer into the program is possible only on a space-available basis. In the event the number of students applying for re-entry, advanced placement or transfer exceeds the number of spaces available, priority will be given as follows:

1. Re-entering SCC Associate Degree nursing students
2. Advanced Placement students
3. Transfer students

### ADMISSIONS REQUIREMENTS

To be considered for re-entry, advanced placement or transfer applicants must complete the following requirements:

- A completed college Application for Admission.
- Evidence of high school graduation or completion of GED certificate.
- Official copies of all high school and college course transcripts.
- Satisfactory scores on the college placement test or completion of necessary remediation. (See SCC Placement Test Requirements in Admission/Enrollment section.)
- A minimum score of 8 on the Health Occupations Aptitude Examination (HOAE). The HOAE must have been taken within the past three years and may only be taken once per admission cycle (February 1- January 31). (See HOAE requirements in Admission/Enrollment section.)
- Evidence of a cumulative GPA of 2.5 or greater on a 4-point scale on the most recent

- transcript with 10 semester hours completed excluding developmental courses.
- Have completed all prerequisites specific to their entry point with a grade of “C” or better
  - Have a grade of “C” or better in all corequisites.

#### **Re-entering SCC students:**

##### **Additional requirements:**

- The applicant must declare his/her desire to re-enter the program in writing to the Dean of Student Services and the Nursing Program Coordinator at least three (3) months prior to the term in which the student is seeking admission.
- The applicant must meet all admission criteria at least three (3) months prior to the semester he/she wishes to reenter. If all slots have not been filled after the deadline, there may be extensions to the deadline.
- An applicant who must repeat a course must enter into the course in which he/she was unsuccessful.
- If health forms are greater than two (2) years old, new health forms must be completed and submitted. Prior to beginning classes, the student must show evidence of current (less than one year old) CPR card, a current TB test, tetanus immunizations, current malpractice insurance, and accident or personal health insurance.

In the event the number of Southwestern Community College nursing students applying for re-entry exceeds the number of spaces available, the cumulative grade point average at the time of exit will be utilized and those students with the highest average will be accepted in the program.

#### **Advanced Placement Students: To be completed by January 31**

##### **Additional Requirements:**

- Possess a current, valid, North Carolina-eligible license
- Have at least 1 year of experience as a LPN
- Complete a nursing transitions course (NUR 214 or equivalent)
- Submit evidence of completion of chemistry at the high school level or above with a grade of “C” or better.
- Complete the following prerequisite courses with a grade of “C” or better:  
BIO 168, BIO 169, BIO 175, ENG 111, ENG 114, MAT 110 or higher, PSY 150, CIS 110 and a Humanities course.

In the event the number of qualified Advanced Placement applicants exceeds the number of spaces available, the slots will be filled based on HOAE score and GPA.

#### **SUMMER SEMESTER 1**

NUR	214	Nursing Transition Concepts	3	0	3	4
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#### **FALL SEMESTER 1**

NUR	212	Health Systems Concepts	3	0	6	5
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#### **SPRING SEMESTER 1**

NUR	213	Complex Health Concepts	4	3	15	10
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#### **Transfer students:**

##### **Additional requirements:**

- Applicants must have completed NUR 111 to be eligible for transfer.
- The applicant must declare his/her desire to transfer into the program in writing to the Dean of Student Services and the Nursing Program Coordinator at least three (3) months

- prior to the term in which the student is seeking admission.
- The applicant must meet all admission criteria at least three (3) months prior to the semester he/she wishes to enroll. If all slots have not been filled after the deadline, there may be extensions to the deadline.
  - An applicant who must repeat a course must enter into the course in which he/she was unsuccessful.
  - Applicants must provide official transcripts from a Board of Nursing approved Associate Degree Nursing Program for evaluation.
  - Applicants must provide copies of outline and syllabi of nursing courses for which transfer credit is requested. These documents will be reviewed by the Nursing Program Coordinator and nursing faculty for content compatibility with Southwestern Community College's Associate Degree in nursing courses. As each transfer situation is unique, validation of skills and knowledge may be required. Students lacking documentation of completion of a majority of the content for a course will be required to take the course. The final decision for transfer credit for nursing courses will be made by the Nursing Program Coordinator.
  - Health forms must be completed and submitted. Prior to beginning classes, the student must show evidence of current (less than one year old) CPR card, a current TB test, tetanus immunizations, current malpractice insurance, and accident or personal health insurance.

After available spaces are filled with returning SCC Associate Degree Students and/or Advanced Placement students, transfer students will be selected based on their current grade point average. The candidates with the highest numerical score will be admitted .

#### **FACULTY**

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The Nursing Assistant curriculum prepares individuals to work under the supervision of licensed health care professionals in performing nursing care and services for persons of all ages.

Course work emphasizes growth and development throughout the life span, personal care, vital signs, communication, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management; family resources and services; and employment skills.

Graduates of this curriculum may be eligible to be listed on the registry as a Nursing Assistant I and Nursing Assistant II. They may be employed in home health agencies, hospitals, clinics, nursing homes, extended care facilities, and doctors' offices.

### NURSING ASSISTANT CERTIFICATE – C45480 & C45480CP\*

#### FALL SEMESTER I

<u>Prefix</u>	<u>No</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credit</u>
NAS	101	Nursing Assistant I	3	4	3	6
NAS	106	Geriatrics	<u>2</u>	<u>0</u>	<u>3</u>	<u>3</u>
		Totals	5	4	6	9

#### SPRING SEMESTER I

NAS	102	**Nursing Assistant II	3	2	6	6
NAS	103	Home Health Care	2	0	0	2
NAS	107	Medication Aide	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	5	4	6	9

Total Hour Credits: 18

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

\*\*Students must have a GED or High School diploma before they complete the NAI course in order to register and take the State NAI certification exam and be listed by the North Carolina Board of Nursing.

### ADMISSIONS CRITERIA

All applicants must:

- Complete an application to the college and program
- Meet the Southwestern Community College Placement Test requirement for reading comprehension with a passage score > 55.

The Nursing Assistant Certificate has limited enrollment. Students will be accepted into the courses based on application submission date and meeting the college testing requirement.

### NOTES

1. All students admitted into a health sciences program may be required by a clinical site to submit to a criminal background check and/or drug testing, prior to or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
2. All students completing a health sciences program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

### FACULTY

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The Occupational Education Associate curriculum is designed for individuals skilled and experienced in a trade or technical specialty who would like to receive an associate degree in preparation for teaching or other purposes.

Course work is designed to supplement previous education, training, and/or experience the individual has already attained.

Graduates of the program may find employment as instructors in the field of occupational education.

## ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55320

### GENERAL EDUCATION

**English/Communication - Six SHC for AAS degree or three SHC for diploma are required.**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Expository Writing	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3

**Humanities / Fine Arts - Three SHC required for AAS degree.**

***	***	Humanities Elective	3	0	0	3
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**Social / Behavioral Science - Three SHC required for AAS degree.**

PSY	150	General Psychology	3	0	0	3
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**Natural Science / Mathematics - Three SHC required for AAS degree.**

Choose one of the following:

MAT	115	Mathematical Models	2	2	0	3
MAT	140	Survey of Mathematics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
General Education Totals			14/15	2	0	15

### MAJOR COURSES: Core - Required Courses

EDU	175	Intro to Trade & Industrial Education	3	0	0	3
EDU	176	Occupation Analysis & Course Dev	3	0	0	3
EDU	177	Instructional Methods	2	2	0	3
EDU	179	Vocational Student Organizations	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	281	Instruction Strat./Reading & Writing	3	0	0	3
ISC	121	Environmental Health and Safety	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			19	4	0	21

### OTHER MAJOR COURSES: (For the AAS degree)

CIS	110	Introduction to Computers	2	2	0	3
EDU	161	Introduction to Exceptional Children	3	3	0	3
EDU	178	Facilities Organization & Planning	2	2	0	3
EDU	240	Work-Based Learning Practices/Tech.	3	0	0	3
EDU	275	Effective Teacher Training	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
Totals			12	7	0	14

### OTHER REQUIRED COURSES:

ACA	111	College Student Success ~ 1st semester	1	0	0	1
BUS	137	Principles of Management	3	0	0	3
BUS	153	Human Resource Management	3	0	0	3
BUS	255	Organizational Behavior	3	0	0	3
COE	114	Co-op Work Experience I	0	0	40	4
OST	136	Word Processing	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
Totals			12	2	40	17

Major Courses Totals: 35      Total Semester Hour Credits: 67

**DIPLOMA - D55320**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/occupational-education-associate-diploma>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	110	Introduction to Computers	2	2	0	3
EDU	161	Introduction to Exceptional Children	3	3	0	3
EDU	175	Intro to Trade & Industrial Education	3	0	0	3
EDU	176	Occupational Analysis/Course Dev.	3	0	0	3
EDU	177	Instructional Methods	2	2	0	3
EDU	178	Facilities Organization and Planning	2	2	0	3
EDU	179	Vocational Student Organizations	3	0	0	3
EDU	240	Work-Based Learning Practices/Tech.	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	275	Effective Teacher Training	2	0	0	2
EDU	281	Instruction Strat./Reading & Writing	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
ISC	121	Environmental Health and Safety	3	0	0	3
PSY	150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	37	11	0	41

Total Semester Hour Credits: 41

**CERTIFICATE - C55320**

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/occupational-education-associate-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
EDU	175	Intro to Trade & Industrial Education	3	0	0	3
EDU	177	Instructional Methods	2	2	0	3
EDU	179	Vocational Student Organizations	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	281	Instruction Strat./Reading & Writing	3	0	0	3
ISC	121	Environmental Health and Safety	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	16	4	0	18

Total Semester Hour Credits: 18

**ADVISOR**

**Scott Baker**

scottb@southwesterncc.edu

(828) 339.4249 or (800) 447.4091, ext. 4249

This curriculum is designed to prepare individuals to be successful professionals in outdoor adventure, education and leadership.

Course work includes technical training in the areas such as backpacking, canoeing, kayaking, and rock-climbing. These skills are taught through facilitation and experiential learning methodologies. This course of study includes interpersonal skills and leadership skills such as group process, conflict resolution, program planning and management issues.

Graduates from this program will have a sound background in outdoor leadership blended with a solid foundation of general education, business, and computer skills. Graduates are prepared for employment in the adventure tourism industry, therapeutic wilderness programs, specialized adventure/leadership programs, adventure programs for youth, challenge course industry, city, county, and state outdoor programs, public and private outdoor education centers, and private and public school outdoor programs.

**ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55330**

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
ODL	110	Introduction to Outdoor Leadership	2	2	0	3
ODL	120	Challenge Course Facilitation	1	4	0	3
ODL	130	Water-Based Activities I	<u>1</u>	<u>6</u>	<u>0</u>	<u>3</u>
		Totals	10	14	0	16

**SPRING SEMESTER 1**

ENG	114	Professional Research & Reporting	3	0	0	3
ODL	115	Methods of Experiential Education	2	2	0	3
ODL	125	Wilderness First Responder	3	3	0	4
ODL	135	Land-Based Activities I	1	6	0	3
WEB	110	Internet/Web Fundamentals	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		Totals	11	14	0	16

**SUMMER SEMESTER**

BUS	137	Principles of Management	3	0	0	3
***	***	Humanities Elective	3	0	0	3

Choose one of the following:

COE	111	Co-op Work Experience I	0	0	10	1
ODL	138	Field Experience I	<u>1</u>	<u>2</u>	<u>0</u>	<u>4</u>
		Totals	6-7	0-9	0-10	7-10

**FALL SEMESTER 2**

BUS	139	Entrepreneurship I	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
ODL	210	Water-Based Activities II	1	6	0	3
ODL	215	Adm. & Policy of Public Lands	3	0	0	3
PSY	150	General Psychology	3	0	0	3
***	***	Technical Elective	<u>0-3</u>	<u>0-6</u>	<u>0</u>	<u>1-3</u>
		Totals	13-16	6-12	0	16-18



**SPRING SEMESTER 2**

ODL	212	Land-Based Activities II	1	6	0	3
ODL	220	Climbing	1	4	0	3
ODL	228	ODL for Special Populations	2	2	0	3
ODL	286	Issues in Outdoor Leadership	2	2	0	3
***	***	Other Elective	1-3	2-6	0	2-7
<u>Choose one of the following:</u>						
COE	121	Co-op Work Experience II	0	0	10	1
ODL	238	Field Experience II	<u>1</u>	<u>2</u>	<u>0</u>	<u>4</u>
Totals			7-10	16-29	0-10	15-23

Total Semester Hour Credits: 70

**TECHNICAL ELECTIVES**

MED	182	CPR, First Aid & Emergency I	1	2	0	2
ODL	244	Caving	1	3	0	2
ODL	250	Biking	1	3	0	2
ODL	260	Challenge Course Management	1	4	0	3
ODL	265	Raft Guide Training	1	2	0	2
ODL	270	Swift Water Rescue	0	2	0	1

**OTHER ELECTIVES**

EMS	110	EMT Basic	5	6	0	7
EMS	243	Wilderness EMT	1	2	0	2
ODL	140	Intro to Wilderness Therapy	2	2	0	3
ODL	245	Wilderness Therapeutic Models	3	2	0	4
ODL	248	Field Techniques in WT	2	6	0	4
ODL	267	Primitive Living Skills	1	4	0	3
ODL	284	Principles of Ecotourism	2	2	0	3
ODL	288	Current Trends in ODL	1	4	0	3

**CERTIFICATE C55330**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ODL	110	Introduction to Outdoor Leadership	2	2	0	3
ODL	115	Methods of Experiential Education	2	2	0	3
<u>Choose one of the following:</u>						
MED	182	CPR, First Aid & Emergency I	1	2	0	2
ODL	125	Wilderness First Responder	3	3	0	4
<u>Choose two of the following:</u>						
ODL	120	Challenge Course Facilitation	1	4	0	3
ODL	130	Water-Based Activities I	1	6	0	3
ODL	135	Land-Based Activities I	1	6	0	3
ODL	220	Climbing	<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>
Totals			7-9	14-19	0	14-16

Total Semester Hour Credits: 14-16

**WILDERNESS THERAPY CERTIFICATE C553301**

This curriculum is designed to prepare individuals to be successful professionals in the wilderness therapy field.

Course work includes technical training in the areas of backcountry travel, backpacking, and primitive living skills. These skills are taught through facilitation and experiential learning methodologies. This course of study includes interpersonal skills and leadership skills such as group process, conflict resolution, therapeutic interventions, and management issues.

Graduates from this program will have a sound background in outdoor field skills blended with a solid foundation of theoretical skills and knowledge of wilderness therapeutic models. Graduates are prepared for employment as field instructors in wilderness therapy programs, in residential therapeutic schools and programs, and the adventure therapy industry.

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/wilderness-therapy-certificate>

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ODL	125	Wilderness First Responder	3	3	0	4
ODL	140	Intro to Wilderness Therapy	2	2	0	3
ODL	245	Wilderness Therapeutic Models	3	2	0	4
ODL	248	Field Techniques in WT	2	6	0	4
<u>Choose one of the following:</u>						
ODL	115	Methods of Experiential Education	2	2	0	3
ODL	130	Water-Based Activities I	1	6	0	3
ODL	135	Land-Based Activities I	1	6	0	3
ODL	267	Primitive Living Skills	<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>
		Totals	11-12	15-19	0	18

Total Semester Hour Credits: 18

**WILDERNESS EMERGENCY MEDICINE CERTIFICATE C553302**

This curriculum is designed to prepare individuals to be successful outdoor professionals in Wilderness Emergency Medicine.

Course work includes technical training in the areas such as wilderness patient assessment, improvised litters and splints, environmental emergencies and evacuation protocols. These skills are taught through facilitation and experiential learning methodologies.

Graduates from this program will have a sound background in emergency management blended with a solid foundation of outdoor skills. Graduates are prepared for employment in agencies that require a higher level of training in medical and backcountry skills to handle difficult environments, and prolonged treatment of the patient with limited resources.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
EMS	110	EMT Basic	5	6	0	7
<u>Choose one of the following:</u>						
EMS	243	Wilderness EMT	1	2	0	2
ODL	125	Wilderness First Responder	3	3	0	4
<u>Choose one of the following:</u>						
ODL	130	Water-Based Activities I	1	6	0	3
ODL	135	Land-Based Activities I	1	6	0	3
ODL	267	Primitive Living Skills	<u>1</u>	<u>4</u>	<u>0</u>	<u>3</u>
Totals			7-9	12-15	0	12-15

Total Semester Hour Credits: 12-15

**FACULTY**

**Paul Wolf, Program Coordinator**

pjwolf@southwesterncc.edu

SCC Swain Center • (828) 366.2003

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

Graduates are eligible to take the paralegal certification exam administered by the North Carolina State Bar.

**ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25380**

**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
ENG	111	Expository Writing	3	0	0	3
LEX	110	Introduction to Paralegal Study	2	0	0	2
LEX	120	Legal Research/Writing I	2	2	0	3
LEX	180	Case Analysis & Reasoning	1	2	0	2
MAT	115	Mathematical Models	2	2	0	3
***	***	Social Science Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
Totals			14	6	0	17

**SPRING SEMESTER 1**

ENG	114	Professional Research and Reporting	3	0	0	3
LEX	121	Legal Research/Writing II	2	2	0	3
LEX	140	Civil Litigation I	3	0	0	3
LEX	260	Bankruptcy & Collections	3	0	0	3
OST	136	Word Processing	2	2	0	3
CIS	110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
Totals			15	6	0	18

**SUMMER SEMESTER**

LEX	141	Civil Litigation II	2	2	0	3
LEX	160	Criminal Law & Procedure	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
Totals			4	4	0	6

**FALL SEMESTER 2**

ACC	120	Principles of Financial Accounting	3	2	0	4
LEX	130	Civil Injuries	3	0	0	3
LEX	170	Administrative Law	2	0	0	2
LEX	210	Real Property I	3	0	0	3
LEX	250	Wills, Estates, & Trusts	2	2	0	3
LEX	280	Ethics & Professionalism	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
Totals			15	4	0	17

**SPRING SEMESTER 2**

COE	111	Co-op Work Experience I	0	0	10	1
LEX	150	Commercial Law I	2	2	0	3
LEX	211	Real Property II	1	4	0	3
LEX	240	Family Law	3	0	0	3
OST	236	Adv Word/Information Processing	2	2	0	3
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	11	8	10	16

Total Semester hour Credits: 74

**FACULTY**

**Kelly Burch, Program Coordinator**

k\_burch@southwesterncc.edu

(828) 339.4209 or (800) 447.4091, ext. 4209

The Phlebotomy curriculum prepares individuals to obtain blood and other specimens for the purpose of laboratory analysis.

Course work includes proper specimen collection and handling, communication skills, and maintaining patient data.

Graduates may qualify for employment in hospitals, clinics, physicians' offices, and other health care settings and may be eligible for national certification as phlebotomy technicians. Graduates are eligible to take the Phlebotomy Certification Exam given by the American Society of Clinical Pathology Board of Certification.

#### CERTIFICATE C45600

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
*PBT	100	Phlebotomy Technology	5	2	0	6
*PBT	101	Phlebotomy Practicum	0	0	9	3
<u>Choose one of the following:</u>						
BUS	151	People Skills	3	0	0	3
PSY	118	Interpersonal Psychology	3	0	0	3
		Totals	8	2	9	12

Total Semester Hour Credits: 12

\*Stated weekly hour requirements are based on a 16 week semester. Please note that PBT 100 runs the first 8 weeks of the 16 week semester. PBT 101 runs the latter 8 weeks. This will increase the weekly hour requirements for class, lab, and clinical.

NOTE: Meeting the following criteria allows for transition into the second semester of the Medical Laboratory Technology program:

1. Successful completion of Phlebotomy curriculum courses
2. Successful completion of BIO 110 or BIO 111 and MLT 116
3. Cumulative GPA of 2.5

#### ADMISSIONS CRITERIA

The program has a limited enrollment and only admits a class in the fall of each year. Applications and all of Phase I must be completed by May 1. All three phases must be completed by the first day of classes. Students must be 18 years of age or older by August 15, in order to be accepted into the Phlebotomy program for Fall Semester. Please check with the Admissions Office about the status of the program.

#### PHASE I - To be completed by May 1

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.0 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.  
This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic

computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at ext. 4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.

- b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.
6. Have a computer (PC compatible) or access to computer. Review the technical requirements necessary for online learning at the following website:  
[www.southwesterncc.edu/distlearn/blackboard/studentreadiness.htm](http://www.southwesterncc.edu/distlearn/blackboard/studentreadiness.htm)
  7. Have access to word processing software and approved Internet browser.

## PHASE II

Preliminary selection for 12 slots will be based on those students with the top 12 grade point averages (GPA) who have completed Phase I requirements. Student who have not completed Phase I requirements by May 1 will be considered for acceptance if slots are available. The identified individuals will receive provisional acceptance and move to Phase III of the admissions requirements.

## PHASE III

Those individuals who are notified of provisional acceptance status will be provided with SCC health forms to be completed by the appropriate medical personnel. The completed medical forms must indicate that you are capable of meeting the physical requirements of the program. Also, the Phlebotomy Technical/Academic Standards self-appraisal form must be completed. These forms must be completed and submitted to the Phlebotomy program coordinator by August 1. Students who fail to submit the required forms will not be able to register for Phlebotomy coursework.

Notes:

1. It is recommended that all components of Phase I be completed before moving to the Phase II requirement.
2. Applications must be updated annually by applicants who were not accepted the previous year.
3. Applicants may take non-phlebotomy, general education and related coursework prior to being accepted into the program.
4. The following items need to be turned in to the Phlebotomy program coordinator by **August 1**:
  - a) Health forms including documentation of a physical, immunizations and administration of at least the first Hepatitis B vaccine.
  - b) Receipt/proof of purchase for accident and malpractice insurance. This insurance can be purchased in the College Business Office at the time tuition is paid.
  - c) Technical/Academic Standards self-appraisal form.
  - d) Signed signature sheet at the end of the Phlebotomy Student Policy Manual. This manual may be found at [www.southwesterncc.edu/acadprog/pbt.htm](http://www.southwesterncc.edu/acadprog/pbt.htm)

## PROGRAM STRUCTURE

The program offers the Phlebotomy coursework online over the first eight weeks of the semester. In addition, the labs are offered on campus during the first eight weeks. Clinical rotations take place in the second eight weeks of the semester. Students must successfully complete

both PBT 100 and PBT 101 in the same semester in order to successfully complete the program. PSY 150 may be taken prior to entering the Phlebotomy program or while in the program. The clinical education will be provided at cooperating hospitals or other healthcare facilities.

### CLINICAL EDUCATION

The clinical education will be provided at cooperating hospitals or other health care facilities. The clinical experience and classroom work are taken within the same semester. Successful completion of the labs must be achieved prior to attending clinical rotations in the latter part of the semester. During clinical education, the student will rotate through the phlebotomy department. Emphasis is placed on attaining competency and proficiency in the performance of phlebotomy procedures, correlated theory and practice and demonstrating prescribed professional behavior. Clinical experience may be integrated with seminars on campus.

Note: Students will receive information on clinical placement within the first few weeks of class (PBT 100). They are not expected to attend clinic (PBT 101) until the ninth week of the semester.

### ACADEMIC STANDARDS

The program requires that students maintain a high level of academic and clinical performance. Failure to meet these standards will prevent normal progression through the program.

### STUDENT POLICY MANUAL

The Student Policy Manual may be found at [www.southwesterncc.edu/acadprog/pbt.htm](http://www.southwesterncc.edu/acadprog/pbt.htm). This manual outlines the policies and procedures to be followed over the course of the program. Students must sign the signature sheet at the end of the policy manual and submit it to the program coordinator by August 1 of the year in which they plan to enroll.

### INSURANCE

Accident and malpractice insurance must be purchased upon entering the Phlebotomy program. The insurance can be purchased in the College Business Office at the time tuition is paid.

The Phlebotomy program is an approved program through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The contact information is: NAACLS, 8410 West Bryn Mawr Ave., Suite 670, Chicago, IL 60631; (773) 714.8880.

### NOTES

1. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
2. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

### FACULTY

**Andrea Kennedy, Program Coordinator**  
andrea@southwesterncc.edu  
(828) 339.4312 or (800) 447.4091, ext. 4312

**Dr. Michael Rohlfing, Medical Director**

**Dale Hall**  
daleh@southwesterncc.edu  
(828) 339.4285 or (800) 447.4091, ext. 4285



The Physical Therapist Assistant curriculum prepares graduates to work in direct patient care settings under the supervision of physical therapists. Assistants work to improve or restore function by alleviation or prevention of physical impairment and perform other essential activities in a physical therapy department.

Course work includes normal human anatomy and physiology, the consequences of disease or injury, and physical therapy treatment of a variety of patient conditions affecting humans throughout the life span.

Graduates may be eligible to take the licensure examination administered by the NC Board of Physical Therapy Examiners. Employment is available in general hospitals, rehabilitation centers, extended care facilities, specialty hospitals, home health agencies, private clinics, and public school systems.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45620

#### FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
BIO	168	Anatomy and Physiology I	3	3	0	4
CIS	111	Basic PC Literacy	1	2	0	2
ENG	111	Expository Writing	3	0	0	3
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PTA	110	Introduction to Physical Therapy	2	3	0	3
PTA	130	Physical Therapy Procedure I	<u>1</u>	<u>6</u>	<u>0</u>	<u>3</u>
		Totals	13	16	0	19

#### SPRING SEMESTER 1

BIO	169	Anatomy and Physiology II	3	3	0	4
ENG	114	Professional Research and Reporting	3	0	0	3
PTA	120	Functional Anatomy	1	6	0	3
PTA	150	Physical Therapy Procedure II	1	6	0	3
PTA	170	Pathophysiology	3	0	0	3
PTA	212	Health Care/Resources	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		Totals	13	15	0	18

#### SUMMER SEMESTER

PTA	140	Therapeutic Exercise	2	6	0	4
PTA	160	Physical Therapy Procedure III	2	3	0	3
PTA	180	PTA Clinical Education Introduction	<u>0</u>	<u>0</u>	<u>2</u>	<u>3</u>
		Totals	4	9	9	10

#### FALL SEMESTER 2

PSY	150	General Psychology	3	0	0	3
PTA	222	Professional Interactions	2	0	0	2
PTA	240	Physical Therapy Procedure IV	3	6	0	5
PTA	254	Pediatrics for the PTA	0	3	0	1
PTA	280	PTA Issues I	1	0	0	1
PTA	282	PTA Issues II	0	3	0	1
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	12	12	0	16

#### SPRING SEMESTER 2

PTA	260	Advanced PTA Clinical Education	0	0	30	10
PTA	270	PTA Topics	1	0	0	1
PTA	252	Geriatrics for the PTA	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		Totals	3	0	30	13

Total Semester Hour Credits: 76

## ADMISSION CRITERIA

Suggested preparatory courses for individuals desiring a career as a physical therapist assistant would include biology, medical terminology, or other courses recommended by the program advisor.

The program has a limited enrollment and only admits a class in the fall of each year. Applications and supporting documents must be completed and submitted by April 15 of the year in which the student wishes to enroll in the program. If all slots have not been filled after the above deadline, there may be extensions to the deadline. Please check with the Admissions Office about the status of the program.

### PHASE I - To be completed by April 15

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the Admissions Office.
4. Have a cumulative grade point average of 2.5 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.  
This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at ext. 4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
  - b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.
6. Complete a minimum of 16 hours (40 for maximum points) of observation time in Physical Therapy at a health care facility. A form for documenting attendance is available from the Program Advisor. It is the prospective student's responsibility to obtain necessary documentation of attendance and return the form to the Admissions Office. It is your responsibility to schedule your visits, if you have questions about possible sites see your advisor.
7. Obtain a minimum score of 7 on the Health Occupations Aptitude Examination. The HOAE must have been taken within the past three years and may only be taken once per academic year. The cost of this test is \$20.00. The applicant will be required to pay this fee when registering for the test. The HOAE registration form may be obtained from the program advisor. This is not a pass or fail test. It is used to measure your potential to be successful in the program. You may take the test one time per annual application period.
8. Complete ACA 111 or equivalent course with a grade of "C" or better.
9. Contact the program advisor for information about the selective admissions process.

**PHASE II**

The top 40 candidates who have completed all parts of Phase I by the program deadline will be scheduled for a personal interview. After the interview process is completed and points have been totaled, the applicants with the highest numerical score will be accepted into the program. High school students selected for the program will be given provisional acceptance contingent upon graduation from high school.

**PHASE III**

Selected applicants will be notified by the Admissions Office of provisional acceptance to the program. Once an applicant returns the signed Acknowledgement of Acceptance form to the Admissions Office, they will be accepted into the program.

Accepted applicants will receive health forms in their provisional acceptance packet. The completed medical forms must indicate that you are capable of meeting the physical requirements for the program. These forms must be completed and returned to the Program Coordinator by August 1. Failure to submit the completed the health packet by the deadline may result in relinquishment of full acceptance status.

**NOTES**

1. Applicants are responsible for submitting all the necessary records to the Admissions Office.
2. Applications must be updated annually by applicants who were not accepted the previous year.
3. Applicants may take non-Physical Therapist Assistant, general education and related coursework prior to being accepted into the program.
4. Contact your advisor for detailed information about the objective selection process.
5. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/ or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
6. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/ or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.
7. A student who presents problems of physical or emotional health at any time throughout the program and has not responded to appropriate treatment within a reasonable period of time will be required to withdraw from the program. Any student whose behavior conflicts with safety may also be required to withdraw from the program.

**CLINICAL EDUCATION**

Clinical education will be provided at cooperating health care facilities and other related settings. Many of these sites may require the student to relocate or travel extensively for this part of the program. All expenses are the student's responsibility.

**FACULTY**

**Diane Page, Program Coordinator**

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The following Pre-Major Associate in Arts programs at SCC are co-operatively designed with state universities to achieve a seamless junior-level transfer into one of several majors. Pre-major programs of study are recommended for SCC transfer students who feel very sure of their eventual majors.

Due to similarities in program requirements, students may not earn both the AA degree and an AA pre-major. Students who can document a specific reason for earning both degrees may appeal in writing to the Dean of Arts and Sciences.

### **MATE**

Mountain Alliance for Transfer Education (MATE). MATE is a unique consortium agreement with Western Carolina University that allows Southwestern Community College students to dual enroll at both institutions. Students must complete 12 semester hours at the 100 level or above at SCC with at least a 2.0 grade average. Students who enroll in one of Southwestern's pre-major programs should consult their advisors about this opportunity.

### ASSOCIATE IN ARTS DEGREE (AA) A1010B

#### Course and Hour Requirements

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6-8
Other Required.....	19
<b>TOTAL</b> .....	<b>64-65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

#### APPLICATION TO A UNIVERSITY

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Business Administration will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

#### ADMISSION TO THE MAJOR

Grade Point Average (GPA) requirements vary, and admission is competitive across the several programs in Business Administration.

#### ENGLISH/COMMUNICATION (6 SHC)

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

#### HUMANITIES/FINE ARTS (12 SHC)

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion.

#### SOCIAL/BEHAVIORAL SCIENCE (12 SHC)

Four courses from three discipline areas are required.

- ECO 251 Principles of Microeconomics 3 0 0 3
- One course must be a history course.
- Two additional courses from the following discipline areas are required: anthropology, economics, geography, history, political science, psychology and sociology.

The following courses are recommended:

POL	120	American Government	3	0	0	3
PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3

**NATURAL SCIENCE/MATHEMATICS (16 SHC)**

Natural Sciences (8 SHC): Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6-8 SHC):

The following courses are required:

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
<u>Choose one of the following:</u>						
MAT	161	College Algebra	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	175	Precalculus	4	0	0	4
<u>Choose one of the following:</u>						
MAT	263	Brief Calculus	3	0	0	3
MAT	271	Calculus I	3	2	0	4

**OTHER REQUIRED HOURS (20 SHC)**

The following courses are required:

ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	2	0	3
ECO	252	Prin. of Macroeconomics	3	0	0	3
MAT	151	Statistics I	3	0	0	3
MAT	151A	Statistics I Lab	0	2	0	1
MAT	175A	Precalculus Lab	0	2	0	1

One to three additional hours of approved college transfer credits may be required, depending on math course competencies.

HRD \*\*\* College Student Success (non-credit) is required in the first semester.

Total Semester Hour Credits: 64-65

**ASSOCIATE IN ARTS DEGREE (AA) A1010D**

## Course and Hour Requirements

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Criminal Justice will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in Criminal Justice.

**ENGLISH/COMMUNICATION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.

**SOCIAL/BEHAVIORAL SCIENCE (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a history course.
- The following courses are required:

POL	120	American Government	3	0	0	3
PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3

**NATURAL SCIENCE/MATHEMATICS (14 SHC)**

Natural Sciences (8 SHC):

Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6 SHC):

Two courses are required.

- One course must be in introductory mathematics (college algebra, trigonometry, calculus, etc.)
- The following course is recommended:

MAT	151	Statistics I	3	0	0	3
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**OTHER REQUIRED HOURS (21 SHC)**

- The following courses are required (10 SHC):

ACA	111	College Student Success	1	0	0	1
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	121	Law Enforcement Operations	3	0	0	3
CJC	141	Corrections	3	0	0	3

- 11 additional hours of approved college transfer courses are required. One hour of ACA may be included in a 65-hour degree program.

Total Semester Hour Credits: 65



**ASSOCIATE IN ARTS DEGREE (AA) A1010R****COURSE AND HOUR REQUIREMENTS**

English Composition .....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences .....	8
Mathematics.....	6
Other Required .....	21
<b>TOTAL.....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in the pre-major articulation agreement for Elementary Education will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in Elementary Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I. Receiving institutions may have additional requirements, prerequisites, or proficiencies. Since these vary at receiving institutions, students should review the admission requirements for the institutions they plan to attend.

**ENGLISH COMPOSITION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	112	Argument-Based Research	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course. Select one course from the following (3 SHC):
- |     |     |                            |   |   |   |   |
|-----|-----|----------------------------|---|---|---|---|
| ENG | 131 | Introduction to Literature | 3 | 0 | 0 | 3 |
| ENG | 231 | American Literature I      | 3 | 0 | 0 | 3 |
| ENG | 232 | American Literature II     | 3 | 0 | 0 | 3 |

- The following course is required:  
COM 231 Public Speaking 3 0 0 3
- One of the following courses is required (3 SHC)  
ART 111 Art Appreciation 3 0 0 3  
ART 114 Art History Survey I 3 0 0 3  
ART 115 Art History Survey II 3 0 0 3  
MUS 110 Music Appreciation 3 0 0 3
- One additional course from the following discipline areas is required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion.

**SOCIAL/BEHAVIORAL SCIENCES (12 SHC)**

Four courses from three discipline areas are required.

- Select one course from the following (3 SHC):  
HIS 111 World Civilizations I 3 0 0 3  
HIS 112 World Civilizations II 3 0 0 3  
HIS 115 Introduction to Global History 3 0 0 3  
HIS 121 Western Civilization I 3 0 0 3  
HIS 122 Western Civilization II 3 0 0 3
- The following courses are required (6 SHC):  
PSY 150 General Psychology 3 0 0 3  
SOC 210 Introduction to Sociology 3 0 0 3
- One additional course from the following discipline areas is required: anthropology, economics, geography, history, political science, psychology, and sociology.

**NATURAL SCIENCES/MATHEMATICS**

Natural Sciences (8 SHC):

- The following courses are required:  
Choose one of the following:  
BIO 110 Principles of Biology 3 3 0 4  
BIO 111 General Biology I 3 3 0 4  
Choose one of the following:  
CHM 131 Intro to Chemistry and 3 0 0 3  
CHM 131A Intro to Chemistry Lab 0 3 0 1  
or  
CHM 151 General Chemistry 3 3 0 4  
or  
PHY 110 Conceptual Physics and 3 0 0 3  
PHY 110A Conceptual Physics Lab 0 2 0 1  
or  
PHY 151 College Physics 3 2 0 4

Mathematics (6 SHC):

- Two of the following courses are required:  
CIS 110 Introduction to Computers 2 2 0 3  
MAT 140 Survey of Mathematics 3 0 0 3  
MAT 141 Mathematical Concepts I 3 0 0 3  
MAT 142 Mathematical Concepts II 3 0 0 3  
MAT 161 College Algebra 3 0 0 3

\* A higher level math course may substitute for MAT 161.

MAT 141 and MAT 142 is the preferred sequence for Elementary Education.

**OTHER REQUIRED HOURS (21 SHC)**

ACA 111	College Student Success	1	0	0	1
• The following course is recommended (4 SHC):					
EDU 216	Foundations of Education	3	2	0	4

It is recommended that within the “Other Required Hours,” pre-education students in Elementary Education select courses that will help meet a corollary studies area. These courses should be selected in conjunction with the requirements at each university, since available corollary studies may not be offered on each university campus. Corollary Studies are comprised of a minimum of 18 hours of community college or UNC campuses’ coursework in a choice of four interdisciplinary areas: (1) diversity studies, (2) global issues, (3) the arts, or (4) math, science and technology. Satisfying the UNC Board of Governors’ requirement for an academic concentration, corollary studies are appropriate for expanding and deepening the pre-service elementary teacher’s knowledge, appreciation and skills in the areas appropriate to the elementary school classroom and curriculum.

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1010F****COURSE AND HOUR REQUIREMENTS**

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL.....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for English Education will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in English Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I.

**ENGLISH COMPOSITION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	112	Argument-Based Research	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, speech/communication, and religion.

One of the following fine arts courses is recommended:

ART	111	Art Appreciation	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
MUS	110	Music Appreciation	3	0	0	3

A foreign language sequence is recommended:

FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3

### SOCIAL/BEHAVIORAL SCIENCES (12 SHC)

Four courses from three discipline areas are required.

- Select one course from the following (3 SHC):

HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3

- The following course is required:

PSY	150	General Psychology	3	0	0	3
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- Two additional courses from the following discipline areas are required: anthropology, economics, geography, history, political science, psychology, and sociology.

### NATURAL SCIENCES/MATHEMATICS

Natural Sciences (8 SHC):

- Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6 SHC):

- Two courses are required.

MAT	161	College Algebra (or higher)	3	0	0	3
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The second course may be a higher level mathematics course or may be selected from among other quantitative subjects, such as computer science (CIS) and statistics (MAT).

### OTHER REQUIRED HOURS (21 SHC)

- The following courses are required (5 SHC):

ACA	111	College Student Success	1	0	0	1
EDU	216	Foundations of Education	3	2	0	4

- Sixteen additional hours (16 SHC) of approved college transfer courses are required.

To prepare for transfer, pre-majors in English Education should select from these recommended courses:

COM	231	Public Speaking	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	272	Southern Literature	3	0	0	3
HEA	110	Personal Health and Wellness	3	0	0	3

- \* If the intermediate foreign language sequence is not available, two additional 200-level literature courses are recommended.

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1010H**

**COURSE AND HOUR REQUIREMENTS**

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university’s foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/ Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for History will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in History.

**ENGLISH/COMMUNICATION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion.

**SOCIAL/BEHAVIORAL SCIENCE (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a history course. One of the following history sequences is recommended:

HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
<u>or</u>						
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3

- Three courses from the following discipline areas are required: anthropology, economics, geography, history, political science, psychology and sociology.

**NATURAL SCIENCE/MATHEMATICS (14 SHC)**

Natural Sciences (8 SHC):

Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6 SHC):

- Two courses are required.

MAT	161	College Algebra	3	0	0	3
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The second course may be a higher level mathematics course or may be selected from among other quantitative subjects, such as computer science (CIS) and statistics (MAT).

**OTHER REQUIRED HOURS (21 SHC)**

ACA	111	College Student Success	1	0	0	1
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- Twenty additional hours of approved college transfer courses are required.

- The following courses are recommended:

HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1011A**

**COURSE AND HOUR REQUIREMENTS**

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL.....</b>	<b>65</b>

- Students must meet the receiving university’s foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in the pre-major articulation agreement for **Middle Grades Education** will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in **Middle Grades Education**. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I. Receiving institutions may have additional requirements, prerequisites, or proficiencies. Since these vary at receiving institutions, students should review the admission requirements for the institutions they plan to attend.

**ENGLISH COMPOSITION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	112	Argument-Based Research	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course. Select one course from the following (3 SHC):

ENG	131	Introduction to Literature or	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3



- The following course is required:  
COM 231 Public Speaking 3 0 0 3
- One of the following courses is required (3 SHC):  
ART 111 Art Appreciation 3 0 0 3  
ART 114 Art History Survey I 3 0 0 3  
ART 115 Art History Survey II 3 0 0 3  
MUS 110 Music Appreciation 3 0 0 3
- One additional course from the following discipline areas is required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion.

### SOCIAL/BEHAVIORAL SCIENCES (12 SHC)

Four courses from three discipline areas are required.

- Select one course from the following (3 SHC):  
HIS 111 World Civilizations I 3 0 0 3  
HIS 112 World Civilizations II 3 0 0 3  
HIS 115 Introduction to Global History 3 0 0 3  
HIS 121 Western Civilization I 3 0 0 3  
HIS 122 Western Civilization II 3 0 0 3
- The following courses are required (6 SHC):  
PSY 150 General Psychology 3 0 0 3  
SOC 210 Introduction to Sociology 3 0 0 3
- One additional course from the following discipline areas is required: anthropology, economics, geography, history, political science, psychology, and sociology.

### NATURAL SCIENCES/MATHEMATICS

Natural Sciences (8 SHC):

- The following courses are required:  
Choose one of the following:  
BIO 110 Principles of Biology 3 3 0 4  
BIO 111 General Biology I 3 3 0 4  
Choose one of the following:  
CHM 131 Intro to Chemistry and 3 0 0 3  
CHM 131A Intro to Chemistry Lab 0 3 0 1  
or  
CHM 151 General Chemistry 3 3 0 4  
or  
PHY 110 Conceptual Physics and 3 0 0 3  
PHY 110A Conceptual Physics Lab 0 2 0 1  
or  
PHY 151 College Physics 3 2 0 4

Mathematics (6 SHC):

- Required course:  
CIS 110 Introduction to Computers 2 2 0 3
- Choose one of the following:  
MAT 141 Mathematical Concepts I 3 0 0 3  
MAT 142 Mathematical Concepts II 3 0 0 3  
MAT 161 College Algebra 3 0 0 3

\* A higher level math course may substitute for MAT 161.

**OTHER REQUIRED HOURS (21 SHC)**

ACA 111	College Student Success	1	0	0	1
• The following course is recommended (4 SHC):					
EDU 216	Foundations of Education	3	2	0	4

It is recommended that within the “Other Required Hours,” pre-education students in Middle Grades Education select courses that will help meet the mandated academic (second major) concentration. These courses should be selected in conjunction with the requirements at each university, since available academic (second major) concentrations and their specific requirements differ on each campus. In order to be consistent with NC licensure areas, Middle Grades Education students should select courses from up to two (2) of the following areas: Social Sciences, English, Mathematics, Sciences. (Note: UNC-Asheville students major in an academic area and the selected 21 hours should be in sync with their intended major/program.) Typically offered academic concentrations are biology, English, history, mathematics, and psychology.

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1010I****COURSE AND HOUR REQUIREMENTS**

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Nursing will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

Admission across the several programs in Nursing is competitive. Other professional admission requirements may be designated by individual programs. GPA requirements vary.

**ENGLISH/COMMUNICATION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.

**SOCIAL/BEHAVIORAL SCIENCE (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a history course.
- The following courses are required:

PSY	150	General Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3

**NATURAL SCIENCE/MATHEMATICS (14 SHC)**

Natural Sciences (8 SHC):

- One of the following chemistry sequences is required:

CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
<u>or</u>						
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4

Mathematics (6 SHC):

- The following math courses are required:

MAT	151	Statistics I	3	0	0	3
MAT	161	College Algebra (or higher)	3	0	0	3

**OTHER REQUIRED HOURS (21 SHC)**

- The following courses are required:

ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy and Physiology I	3	3	0	4
BIO	169	Anatomy and Physiology II	3	3	0	4
BIO	175	General Microbiology	2	2	0	3
PSY	281	Abnormal Psychology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3

- Three additional hours of approved college transfer courses are required.

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1010J****COURSE AND HOUR REQUIREMENTS**

English Composition .....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Physical Education will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

Grade point average requirements vary, and admission is competitive across the several programs in Physical Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I.

**ENGLISH/COMMUNICATION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.
- The following course is recommended to substitute for 3 SHC of Humanities/Fine Arts:

COM	231	Public Speaking	3	0	0	3
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**SOCIAL/BEHAVIORAL SCIENCE (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a history course.
- Three courses from the following discipline areas are required: anthropology, economics, geography, history, political science, psychology and sociology.
- The following course is recommended:

PSY	150	General Psychology	3	0	0	3
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**NATURAL SCIENCE/MATHEMATICS (14 SHC)**

Natural Sciences (8 SHC):

- Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.
- The following sequence of courses is recommended:

BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4

Mathematics (6 SHC):

Two courses required.

- One course must be in introductory mathematics (college algebra, trigonometry, calculus, etc.).
- One of the following courses is recommended as the second mathematics course:

CIS	110	Introduction to Computers	2	2	0	3
MAT	151	Statistics I	3	0	0	3

**OTHER REQUIRED HOURS (21 SHC)**

- The following courses are required:

ACA	111	College Student Success	1	0	0	1
PED	110	Fit and Well for Life	1	2	0	2
PED	***	2 SHC of electives				

- Sixteen additional hours of approved college transfer courses are required.  
Pre-education majors should select additional courses from Humanities/Fine Arts, Social/Behavioral Sciences, Natural Sciences/Mathematics and electives that meet the requirements of the academic concentration, based on the requirements of the receiving institution.
- Foundations of Education (EDU 216) is a recommended course for all pre-majors in education.

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1010K****COURSE AND HOUR REQUIREMENTS**

English Composition .....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Political Science will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in Political Science.

**ENGLISH/COMMUNICATION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.
- One of the following course sequences is recommended:

FRE 111 and 112	Elementary French I & II	6	0	0	6
SPA 111 and 112	Elementary Spanish I & II	6	0	0	6

- One of the following courses is recommended to substitute for 3 SHC of Humanities/

Fine Arts:

COM 110	Introduction to Communication	3	0	0	3
COM 231	Public Speaking	3	0	0	3

### SOCIAL/BEHAVIORAL SCIENCE (12 SHC)

Four courses from three discipline areas are required.

- One course must be a history course.
- Three courses from the following discipline areas are required: anthropology, economics, geography, history, political science, psychology, and sociology.

- The following courses are recommended:

PSY 150	General Psychology	3	0	0	3
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- Choose one of the following:

SOC 210	Introduction to Sociology	3	0	0	3
SOC 220	Social Problems	3	0	0	3

- One of the following courses is recommended:

GEO 111	World Regional Geography	3	0	0	3
GEO 112	Cultural Geography	3	0	0	3

### NATURAL SCIENCE/MATHEMATICS (14 SHC)

Natural Sciences (8 SHC):

- Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6 SHC):

Two courses required.

- One course must be in introductory mathematics (college algebra, trigonometry, calculus, etc.).
- The following course is recommended as the second mathematics course:

CIS 110	Introduction to Computers	2	2	0	3
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### OTHER REQUIRED HOURS (21 SHC)

- The following courses are required:

ACA 111	College Student Success	1	0	0	1
POL 120	American Government	3	0	0	3

- Seventeen additional hours of approved college transfer courses are required.

- One of the following courses is recommended:

ECO 151	Survey of Economics	3	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3

Total Semester Hour Credits: 65



**ASSOCIATE IN ARTS DEGREE (AA) A1010L****COURSE AND HOUR REQUIREMENTS**

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Psychology will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in Psychology.

**ENGLISH/COMMUNICATION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.

**SOCIAL/BEHAVIORAL SCIENCE (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a history course.
- The following course is required:  

PSY 150	General Psychology	3	0	0	3
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- Two courses from the following discipline areas are required, to include at least one additional discipline: anthropology, economics, geography, history, political science, psychology and sociology.

**NATURAL SCIENCE/MATHEMATICS (14 SHC)**

Natural Sciences (8 SHC):

- Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.
- One of the following biology courses is required (4 SHC)  

BIO 110	Principles of Biology	3	3	0	4
BIO 111	General Biology I	3	3	0	4

Mathematics (6 SHC):

- Two courses required.  

MAT 161	College Algebra (or higher)	3	0	0	3
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- The second course may be a higher level mathematics course or may be selected from among other quantitative subjects, such as computer science (CIS) and statistics (MAT).

**OTHER REQUIRED HOURS (21 SHC)**

- |         |                         |   |   |   |   |
|---------|-------------------------|---|---|---|---|
| ACA 111 | College Student Success | 1 | 0 | 0 | 1 |
|---------|-------------------------|---|---|---|---|
- Twenty additional hours of approved college transfer courses are required.

Total Semester Hour Credits: 65

PRE-MAJOR IN ARTS - SOCIAL SCIENCE  
SECONDARY EDUCATION

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### ASSOCIATE IN ARTS DEGREE (AA) A1010M

#### COURSE AND HOUR REQUIREMENTS

English Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences.....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

#### APPLICATION TO A UNIVERSITY

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Social Science Secondary Education will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

#### ADMISSION TO THE MAJOR

GPA requirements vary, and admission is competitive across the several programs in Social Science Secondary Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I.

#### ENGLISH/COMMUNICATION (6 SHC)

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

#### HUMANITIES/FINE ARTS (12 SHC)

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.

**SOCIAL/BEHAVIORAL SCIENCE (12 SHC)**

Four courses from three discipline areas are required.

- The following courses are required: (6 SHC)
 

POL	120	American Government	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
- One of the following course sequences is required: (6 SHC)
 

HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
<u>or</u>						
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3

**NATURAL SCIENCE/MATHEMATICS (14 SHC)**

Natural Sciences (8 SHC):

- Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6 SHC):

Two courses required.

- One course must be an introductory mathematics (college algebra, trigonometry, calculus, etc.).
- The second course may be a higher level mathematics course or may be selected from among other quantitative subjects, such as computer science (CIS) and statistics (MAT).

**OTHER REQUIRED HOURS (21 SHC)**

- The following courses are required: (16 SHC)
 

ACA	111	College Student Success	1	0	0	1
GEO	111	World Regional Geography	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
- One of the following is required: (3 or 6 SHC)
 

ECO	151	Survey of Economics	3	0	0	3
<u>or both</u>						
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3

- 5-8 additional hours of approved college transfer courses are required. Foundations of Education (EDU 216) is a recommended course for all pre-majors in education.

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1010N****COURSE AND HOUR REQUIREMENTS**

English Composition .....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences .....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL .....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in this pre-major articulation agreement for Sociology will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in Sociology.

**ENGLISH/COMMUNICATION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required Course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course.
- Three additional courses from the following discipline areas are required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.

**SOCIAL/BEHAVIORAL SCIENCE (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a history course.

- The following course is required: (3 SHC)

SOC 210	Introduction to Sociology	3	0	0	3
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- One of the following courses is required.

SOC 213	Sociology of the Family	3	0	0	3
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SOC 220	Social Problems	3	0	0	3
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- One course from the following disciplines is required:

Anthropology, Economics, Geography, Political Science, and Sociology

**NATURAL SCIENCE/MATHEMATICS (14 SHC)**

Natural Sciences (8 SHC):

- Two courses from the biological and physical science disciplines, including accompanying laboratory work, are required.

Mathematics (6 SHC):

Two courses required.

- One course must be an introductory mathematics (college algebra, trigonometry, calculus, etc.).
- The second course may be a higher level mathematics course or may be selected from among other quantitative subjects, such as computer science (CIS) and statistics (MAT). Statistics is highly recommended.

**OTHER REQUIRED HOURS (21 SHC)**

ACA 111	College Student Success	1	0	0	1
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- Twenty additional hours of approved college transfer courses are required

Total Semester Hour Credits: 65

**ASSOCIATE IN ARTS DEGREE (AA) A1010Z****COURSE AND HOUR REQUIREMENTS**

English Composition .....	6
Humanities/Fine Arts.....	12
Social/Behavioral Sciences.....	12
Natural Sciences .....	8
Mathematics.....	6
Other Required.....	21
<b>TOTAL.....</b>	<b>65</b>

- Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.
- 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

**APPLICATION TO A UNIVERSITY**

Admission application deadlines vary; students must meet the deadline for the university to which they plan to transfer. Upon successful completion of the associate in arts degree, students who meet the requirements outlined in the pre-major articulation agreement for Special Education will be eligible to be considered for admission as juniors to the universities offering the baccalaureate degree.

**ADMISSION TO THE MAJOR**

GPA requirements vary, and admission is competitive across the several programs in Special Education. Admission to teacher licensure programs requires satisfactory scores on PRAXIS I. Receiving institutions may have additional requirements, prerequisites, or proficiencies. Since these vary at receiving institutions, students should review the admission requirements for the institutions they plan to attend.

**ENGLISH COMPOSITION (6 SHC)**

Two English composition courses are required.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
• Required course:						
ENG	111	Expository Writing	3	0	0	3
• The second composition course must be selected from the following:						
ENG	112	Argument-Based Research	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3

**HUMANITIES/FINE ARTS (12 SHC)**

Four courses from three discipline areas are required.

- One course must be a literature course. Select one course from the following (3 SHC):
- |     |     |                               |   |   |   |   |
|-----|-----|-------------------------------|---|---|---|---|
| ENG | 131 | Introduction to Literature or | 3 | 0 | 0 | 3 |
| ENG | 231 | American Literature I         | 3 | 0 | 0 | 3 |
| ENG | 232 | American Literature II        | 3 | 0 | 0 | 3 |

- The following course is required to substitute for 3 SHC of Humanities/Fine Arts:  
COM 231 Public Speaking 3 0 0 3
- One of the following courses is required (3 SHC):  
ART 111 Art Appreciation 3 0 0 3  
ART 114 Art History Survey I 3 0 0 3  
ART 115 Art History Survey II 3 0 0 3  
MUS 110 Music Appreciation 3 0 0 3
- One additional course from the following discipline areas is required: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy, and religion.

**SOCIAL/BEHAVIORAL SCIENCES (12 SHC)**

Four courses from three discipline areas are required.

- Select one course from the following (3 SHC):  
HIS 111 World Civilizations I 3 0 0 3  
HIS 112 World Civilizations II 3 0 0 3  
HIS 115 Introduction to Global History 3 0 0 3  
HIS 121 Western Civilization I 3 0 0 3  
HIS 122 Western Civilization II 3 0 0 3
- The following courses are required (6 SHC):  
PSY 150 General Psychology 3 0 0 3  
SOC 210 Introduction to Sociology 3 0 0 3
- One additional course from the following discipline areas is required: anthropology, economics, geography, history, political science, psychology, and sociology.

**NATURAL SCIENCES/MATHEMATICS**

Natural Sciences (8 SHC):

- The following courses are required:  
Choose one of the following:  
BIO 110 Principles of Biology 3 3 0 4  
BIO 111 General Biology I 3 3 0 4  
Choose one of the following:  
CHM 131 Intro to Chemistry AND 3 0 0 3  
CHM 131A Intro to Chemistry Lab 0 3 0 1  
or  
CHM 151 General Chemistry 3 3 0 4  
or  
PHY 110 Conceptual Physics AND 3 0 0 3  
PHY 110A Conceptual Physics Lab 0 2 0 1  
or  
PHY 151 College Physics 3 2 0 4

Mathematics (6 SHC):

- Choose two of the following:  
CIS 110 Introduction to Computers 2 2 0 3  
MAT 140 Survey of Mathematics 3 0 0 3  
MAT 141 Mathematical Concepts I 3 0 0 3  
MAT 142 Mathematical Concepts II 3 0 0 3  
MAT 161 College Algebra 3 0 0 3

\* A higher level math course may substitute for MAT 161.



**OTHER REQUIRED HOURS (21 SHC)**

ACA 111	College Student Success	1	0	0	1
• The following course is recommended (4 SHC):					
EDU 216	Foundations of Education	3	2	0	4

It is recommended that within the “Other Required Hours,” pre-education students in Special Education select courses that will help meet the mandated academic (second major) concentration. These courses should be selected in conjunction with the requirements at each university, since available academic (second major) concentrations and their specific requirements differ on each campus.

Total Semester Hour Credits: 65

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body.

Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology.

Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

The SCC radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Accreditation of an educational program provides students, as graduates, assurance that the educational program will provide them with the requisite knowledge, skills, and values to competently perform the range of professional responsibilities expected by potential employers nationwide. It also assures they will be eligible for licensure in each of the 50 states. By requiring programs to teach the entire curriculum developed by the professional society, the American Society of Radiologic Technology, it also assures students they will have the foundation knowledge to continue to develop as professionals in the various fields of the radiation sciences. For more information, visit [www.Jrcert.org](http://www.Jrcert.org).

## ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45700

### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	163	Basic Anatomy & Physiology	4	2	0	5
ENG	111	Expository Writing	3	0	0	3
HRD	***	College Student Success	0	0	0	0
RAD	110	Radiography Intro & Patient Care	2	3	0	3
RAD	111	RAD Procedures I	3	3	0	4
RAD	151	RAD Clinical Education I	0	0	6	2
RAD	181	RAD Clinical Elective	<u>0</u>	<u>0</u>	<u>3</u>	<u>1</u>
		Totals	12	8	9	18

### SPRING SEMESTER 1

ENG	114	Professional Research and Reporting	3	0	0	3
MAT	110	Mathematical Measurement	2	2	0	3
RAD	112	RAD Procedures II	3	3	0	4
RAD	121	Radiographic Imaging I	2	3	0	3
RAD	161	RAD Clinical Education II	<u>0</u>	<u>0</u>	<u>15</u>	<u>5</u>
		Totals	10	8	15	18

### SUMMER SEMESTER

CIS	111	Basic PC Literacy	1	2	0	2
RAD	122	Radiographic Imaging II	1	3	0	2
RAD	131	Radiographic Physics I	1	3	0	2
RAD	171	RAD Clinical Education III	<u>0</u>	<u>0</u>	<u>12</u>	<u>4</u>
		Totals	3	8	12	10

### FALL SEMESTER 2

PSY	150	General Psychology	3	0	0	3
RAD	211	RAD Procedures III	2	3	0	3
RAD	231	Radiographic Physics II	1	3	0	2
RAD	241	Radiobiology/Protection	2	0	0	2
RAD	251	RAD Clinical Education IV	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		Totals	8	6	21	17

**SPRING SEMESTER 2**

RAD	245	Radiographic Quality Management	1	3	0	2
RAD	261	RAD Clinical Education V	0	0	21	7
RAD	271	Radiography Capstone	0	3	0	1
***	***	Humanities Elective	3	0	0	3
		Totals	4	6	21	13

Total Semester Hour Credits: 76

**MISSION STATEMENT**

The mission of Southwestern Community College's Radiography Program is to meet the needs of the students by offering innovative instruction through comprehensive educational practices that promote student achievement and academic excellence, which will enable the student to graduate with the necessary skills to succeed as a radiographer or to continue with other educational goals.

**GOALS**

**Program Effectiveness Goal: Students will be able to gain the knowledge and skills necessary for professional practice as a radiographer. Program data is available at [www.jrcert.org](http://www.jrcert.org)**

Student Learning Outcomes:

Students will complete the program. Benchmark: Retention of  $\geq 75\%$ .

Students will pass the Registry Exam on the 1st attempt. Benchmark: 5 year average of  $\geq 80\%$

Graduates will find employment within 6 months of graduation.

Graduates will be satisfied with their education.

Employers will be satisfied with the graduate's performance

**Goal: Students will think critically.**

Student Learning Outcomes:

Students will perform non-routine procedures.

Students will be able to perform image evaluation.

**Goal: Students will demonstrate professionalism.**

Student Learning Outcomes:

Students will demonstrate professional behaviors.

Students will understand ethics.

Students will understand the importance of professional organizations.

**Goal: Students will communicate effectively.**

Student Learning Outcomes:

Students will demonstrate effective written communication skills.

Students will demonstrate effective oral and interpersonal skills

**Goal: Students will be clinically competent.**

Student Learning Outcomes:

Students will set appropriate exposure factors.

Students will correctly position patients for routine projections.

Students will practice radiation protection.

**ADMISSIONS CRITERIA**

Individuals desiring a career in radiography should take courses in biology, algebra and the physical sciences prior to entering the program.

The program has a limited enrollment and only admits a class in the fall of each year. Applications and supporting documents listed in Phase I below must be completed and submitted by

March 1 of the year in which the student wishes to enroll in the program. If all slots have not been filled after the above deadline, there may be extensions to the deadline. Please check with the Admissions Office about the status of the program.

Students must also be able to pass a technical standards exam. This exam will be conducted by program faculty prior to entrance into the program. This exam demonstrates that a student has the ability to meet certain physical demands which he/she will likely face while in the clinical educational setting. Areas to be evaluated include: communication, cognitive skills, mobility skills, motor skills, physical stamina, and sensory skills (hearing, tactile, smell etc.). Students who cannot meet the technical stands will not be eligible for admission into the program.

### **PHASE I - To be completed by March 1**

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to ensure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.5 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.

This may be met by one of the following methods:

- a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to entrance into the program. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
  - b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.
6. Be eighteen (18) years of age by the midterm of first semester of the year admitted to the program.
  7. Complete a minimum of 8 hours (24 hours to receive maximum points) of observation time in a Radiology Department. Applicants will be evaluated by facility staff during observation time. This evaluation will be used as part of the selection criteria. Applicants must meet with a member of the program faculty (Meg Petty or Kim Argo) to obtain Observation and Evaluation Forms prior to observing.
  8. Take the Health Occupations Aptitude Exam. The HOAE must have been taken within the past three years and may only be taken once per academic year (See HOAE requirements in Admission/Enrollment section). The cost of this test is \$20.00. The applicant will be required to pay this fee when registering for the test. Details for testing dates and times can be secured from the Advisor. This is not a pass or fail test. It is used to measure your potential to be successful in the program.

Once the program deadline has passed and records have been reviewed, applicants will receive a letter stating their eligibility status.

## PHASE II

All candidates who complete Phase I by the program deadline will be reviewed and the top candidates (up to 30), based on GPA and HOAE score, will be scheduled for a personal interview. Applicants will be notified of date and time.

All interviewees will be scored using the following point system:

- GPA – Up to 40 points (GPA multiplied by 10).
- HOAE – Up to 15 points.
- Observation/Evaluation – Up to 10 points.
  - Observation Hours:
    - 8 hours = 1 point
    - 9-16 hours = 2 points
    - 17-24 hours = 4 points
  - Evaluation – Up to 6 points.
- Interview – Up to 35 points
 

Students will receive points during the interview for General Education Courses, Educational Experience and Current Licensure. Points will be assigned on a sliding scale based on the following:

  - BIO 163, ENG 111, ENG 114, MAT 110, CIS 111, PSY 150, HUM Elective completed with a grade of “C” or better.
  - Health Occupations/Allied Health courses completed with a grade of “C” or better in high school.
  - Currently licensed Nurse Aide I/Nurse Aide II, LPN or EMT. Documentation must be submitted to Admissions prior to the deadline to receive points.
  - Interview skills and professional presentation

After the interview process is completed and points have been totaled, the applicants with the highest numerical scores will be accepted into the program (up to 19 students). High school students selected for the program will be given provisional acceptance contingent upon graduation from high school. Students enrolled in developmental courses will be given provisional acceptance contingent upon successful completion of those courses.

## PHASE III

Selected applicants will be notified by the Admissions Office of provisional acceptance to the program. Once an applicant returns the signed Acknowledgement of Acceptance form to the Admissions Office, they will be fully accepted into the program.

Accepted applicants will receive health forms in their provisional acceptance packet. The completed medical forms must indicate that you are capable of meeting the physical requirements for the program. These forms must be completed and returned to the Program Coordinator within 30 days. Failure to complete the health packet may result in relinquishment of full acceptance status.

Documentation of current CPR certification is required by September of the first Fall Semester and must be kept current throughout the length of the program. American Heart CPR Certification is highly recommended.

## ACADEMIC STANDARDS

The program requires that students maintain a high level of academic and clinical performance. Failure to meet these standards will prevent normal progression through the program.

### Notice:

Candidates for certification from the American Registry of Radiologic Technologists (ARRT) must comply with the “Rules of Ethics” contained in the ARRT Standards of Ethics. Any conviction of a crime, including a felony, a gross misdemeanor, or a misdemeanor with the sole exception of speeding and parking violations must be investigated by the ARRT in order to determine eligibility for the certification examination. Additional information may be obtained from the program director.

## DECLARED PREGNANT STUDENT

Federal and state regulations were modified in 1994 to introduce the term “declared pregnant worker.” Under these regulations, each student may declare her pregnancy in writing to the program director. However, it is the student’s option whether or not to declare the pregnancy. The student may decide to declare the pregnancy as soon as conception is confirmed, or at any time during the pregnancy. Once that pregnancy is declared, this institution is required to ensure that the unborn child does not receive more than 500 millirem during the term of the pregnancy, as determined by the radiation dosimeter which is worn at waist level under the apron. In the event that a student has already received 450 or greater millirem from the date of conception to the date of that the pregnancy is declared the regulations permit the unborn child to receive a maximum of 50 millirem during the remaining term of the pregnancy. It is up to each student to make her own decision regarding the declaration of the pregnancy. In all cases, this institution requires that radiation doses to the student and to the unborn child shall be maintained “As Low As Reasonably Achievable” (ALARA).

Further information regarding student pregnancy may be found in the Radiography Student Policy Manual.

## STUDENT POLICY MANUAL

Students entering the program will receive a Student Policy Manual. This manual outlines the policies and procedures to be followed over the course of the program. Upon request, this document is available to interested persons. These requests should be made directly to program officials.

## CLINICAL EDUCATION

Selected learning experience (clinical education) will be provided at cooperating hospitals or other health care facilities within the area served by the College. Transportation and associated expenses are the sole responsibility of the student.

## NOTES

1. Applicants are responsible for submitting all the necessary records to the Admissions Office.
2. Applications must be updated annually by applicants who were not accepted the previous year.
3. Applicants may take non-radiography, general education and related coursework prior to being accepted into the program.
4. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student’s ability to progress in the program.
5. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.
6. A student who presents problems of physical or emotional health at any time throughout the program and has not responded to appropriate treatment within a reasonable period of time may be required to withdraw from the program. Any student whose behavior conflicts with safety may also be required to withdraw from the program.

## FACULTY

**Meg Rollins Petty, Program Coordinator**

mpetty@southwesterncc.edu

(828) 339.4320 or (800) 447.4091, ext. 4320

**Kim Argo**

kargo@southwesterncc.edu

(828) 339.4359 or (800) 447.4091, ext. 4359

The Real Estate Licensing curriculum provides licensing education required by the North Carolina Real Estate Commission for students preparing to take the real estate license examination and for provisional brokers that are seeking removal of the provisional status.

Course work includes the practices and principles of real estate, broker relationships as they apply to customers, sellers and buyers, contract procedures, fair housing and real estate methodology. Course work also includes professional development opportunities.

Graduates who have passed the real estate license examination and obtained a real estate provisional broker license should then qualify for removal of the provisional status and be able to provide basic, residential real estate services as a broker affiliated with a real estate brokerage firm.

A student must secure his/her provisional broker license before proceeding into the post-licensure courses and must complete the three mandatory post-licensing courses within three years of licensure in order to avoid cancellation of his/her license.

### CERTIFICATE C25480

#### REQUIRED COURSES

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
RLS	112	Broker Prelicensing	5	0	0	5
RLS	121	Broker Relationships	2	0	0	2
RLS	122	Contracts and Closing	2	0	0	2
RLS	123	Select Real Estate Issues	2	0	0	2
		Totals	11	0	0	11
Select a minimum of 2 credit hours:						
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CIS	111	Basic PC Literacy	1	2	0	2
RLS	113	Real Estate Mathematics	2	0	0	2
RLS	115	Real Estate Finance	2	0	0	2
RLS	116	Real Estate Law	2	0	0	2
RLS	117	Real Estate Brokerage	4	0	0	4
RLS	120	Real Estate Practice	2	0	0	2

Total Semester Hour Credits: 13-15

#### Real Estate Licensing Requirements

North Carolina operates a "broker only" licensing system for real estate professionals. The North Carolina Real Estate Commission licenses individuals as Real Estate Brokers. Individuals must meet a prelicensing education requirement prior to becoming licensed and a postlicensing education requirement after becoming provisionally licensed.

**Broker Prelicensing Course:** Individuals must complete a prescribed, 75 hour North Carolina broker prelicense course in order to take the North Carolina Real Estate License Examination. Students who meet all requirements for successful completion of RLS 112 (Broker Prelicensing) may qualify to take the state license examination. Candidates passing that exam and meeting other requirements specified by the North Carolina Real Estate Commission may be licensed as Provisional Brokers.

Broker Postlicensing Courses: Provisionally licensed Brokers must complete 90 classroom hours of postlicensing education within three years of provisional licensure. At least one 30 hour course must be taken each year. This requirement may be met with the successful completion of RLS 121, 122, and 123. Students must hold an active Provisional Broker license to register for these postlicensing courses.

**FACULTY****Bob Holt, Program Coordinator**

r\_holt@southwesterncc.edu

(828) 339.4274 or (800) 447.4091, ext. 4274



The Respiratory Therapy curriculum prepares individuals to function as respiratory therapists. In these roles, individuals perform diagnostic testing, treatments and management of patients with heart and lung diseases.

Students will master skills in patient assessment and treatment of cardiopulmonary diseases. These skills include life support, monitoring, drug administration, and treatment of patients of all ages in a variety of settings.

Graduates of accredited programs are eligible to take entry-level examinations from the National Board of Respiratory Care. Graduates may also take the Advanced Practitioner examination, which is required to become a Registered Respiratory Therapist. Graduates may be employed in hospitals, clinics, doctor's offices, nursing homes, education, industry and home care.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A45720

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy & Physiology I	3	3	0	4
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
RCP	110	Introduction to Respiratory Care	3	3	0	4
RCP	114	C-P Anatomy & Physiology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	16	6	0	18

#### SPRING SEMESTER 1

BIO	169	Anatomy & Physiology II	3	3	0	4
ENG	114	Professional Research & Reporting	3	0	0	3
RCP	111	Therapeutics/Diagnostics	4	3	0	5
RCP	113	RCP Pharmacology	2	0	0	2
RCP	115	C-P Pathophysiology	2	0	0	2
RCP	123	Special Practice Lab	<u>0</u>	<u>3</u>	<u>0</u>	<u>1</u>
		Totals	14	9	0	17

#### SUMMER SEMESTER

RCP	112	Patient Management	3	3	0	4
RCP	134	Clinical Practice I	<u>0</u>	<u>0</u>	<u>12</u>	<u>4</u>
		Totals	3	3	12	8

#### FALL SEMESTER 2

PSY	150	General Psychology	3	0	0	3
RCP	146	Clinical Practice II	0	0	18	6
RCP	210	Critical Care Concepts	3	3	0	4
RCP	214	Neonatal/Pediatric RC	1	3	0	2
RCP	222	Special Practice Lab	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>
		Totals	7	8	18	16

#### SPRING SEMESTER 2

RCP	158	Clinical Practice III	0	0	24	8
RCP	211	Advanced Monitoring/Procedures	3	3	0	4
RCP	212	Home Care/Rehabilitation	2	0	0	2
***	***	Humanities Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	8	3	24	17

Total Semester Credit Hours: 76

**ADMISSIONS CRITERIA**

The program has a limited enrollment and only admits a class in the fall of each year. Applications must be completed and submitted and supporting documents must be received no later than March 1 of the same year. If all slots have not been filled after the above deadline, there may be extensions to the deadline. Please check with the Admissions Office about the status of the program.

**PHASE I - To be completed by March 1**

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.0 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.  
This may be met by one of the following methods:
  - a) Take and pass the basic components of the Computerized Placement Test. These consist of algebra, arithmetic, reading comprehension, grammar and basic computer skills. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at (828) 339.4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
  - b) Appropriate SAT or ACT scores and successful completion of high school or college computer literacy course within the past six years. See admissions section for additional details.
  - c) Successful completion of a college-level math, algebra, English and computer literacy course.
6. It is required that the applicant spend a minimum of six hours observing in a hospital Respiratory Therapy Department. Contact the program director or clinical director to get a list of available sites to visit. There is a form that must be taken to the site. You may pick up the observation form from the Health Sciences Administrative Assistant. Return the completed form to the Admissions Department.
7. Take the Health Occupations Aptitude Exam. The HOAE must have been taken within the past three years and may only be taken once per academic year (See HOAE requirements in Admission/Enrollment section). The cost of this test is \$20.00. The applicant will be required to pay this fee when registering for the test. Details for testing dates and times can be secured from the Advisor. This is not a pass or fail test. It is used to measure your potential to be successful in the program.

**PHASE II**

Those individuals who have completed all parts of Phase I by the appropriate deadlines will be scheduled for a personal interview. Applicants will be notified of date and time.

**PHASE III**

Those individuals who are notified of acceptance status will be provided with SCC health forms to be completed by the appropriate medical personnel. The completed medical forms must indicate that you are capable of meeting the physical requirements for the program. The deadline for submitting the completed forms to the program director is Aug. 1.

**NOTES**

1. Applicants are responsible for submitting all the necessary records to the Registrar's Office.
2. Applications must be updated annually by applicants who were not accepted the previous year.
3. Applicants may take non-respiratory therapy, general education and related coursework prior to being accepted into the program.
4. All students admitted into a health science program may be required, by clinical or Co-op site, to submit to a criminal background check and/or drug testing, prior to, or during clinical education coursework. The results of these tests could affect the student's ability to progress in the program.
5. All students completing a health science program may be required, by an external testing agency, to submit to a criminal background check and/or drug test prior to a state or national licensing/certification board approving the graduate to sit for licensure/certification exams.

**ACADEMIC STANDARDS**

The program requires that students maintain a high level of academic and clinical performance in accordance with program policies. Failure to meet these standards will prevent normal progression through the program.

Upon completion of the program graduates will be eligible to take the national exams and may apply for a state license to practice.

**FACULTY**

**Erin Sterling, Program Coordinator**

e\_sterling@southwesterncc.edu

(828) 339.4000 or (800) 447.4091

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers.

Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations.

Graduates are prepared to plan and implement developmentally appropriate programs in school-aged environments. Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/ private schools, recreational centers, and other programs that work with school-age populations.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A55440

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ACA	111	College Student Success	1	0	0	1
EDU	144	Child Development I	3	0	0	3
PSY	150	General Psychology	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
MAT	140	Survey of Mathematics	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15	2	0	16

#### SPRING SEMESTER 1

EDU	145	Child Development II	3	0	0	3
ENG	114	Professional Research and Reporting	3	0	0	3
***	***	Humanities	3	0	0	3
***	***	Social Science	3	0	0	3
***	***	Social Science	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	15	0	0	15

#### SUMMER SEMESTER

***	***	Humanities	3	0	0	3
***	***	Social Science	3	0	0	3
***	***	Humanities	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		Totals	9	0	0	9

#### FALL SEMESTER 2

EDU	131	Child, Family, & Community	3	0	0	3
EDU	163	Classroom Management & Instruction	3	0	0	3
EDU	216	Foundations of Education	4	0	0	4
***	***	Humanities	3	0	0	3
***	***	Natural Science	<u>3</u>	<u>2-3</u>	<u>0</u>	<u>4</u>
		Totals	16	2-3	0	17

**SPRING SEMESTER 2**

EDU	221	Children with Exceptionalities	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	285	Internship Experience School-age	1	9	0	4
EDU	289	Adv. Issues/School Age Populations	2	0	0	2
***	***	Natural Science	3	2-3	0	4
		Totals	11	13-14	0	16

Total Semester Credit Hours: 73

**CERTIFICATE C55440, C55440CP\***

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
EDU	131	Child, Family, & Community	3	0	0	3
EDU	144	Child Development I	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	163	Classroom Management & Instruction	3	0	0	3
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	289	Adv. Issues/School Age Populations	2	0	0	2
		Totals	17	0	0	17

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

**FACULTY**

**Sheri Turk, Program Coordinator**

sturk@southwesterncc.edu

(828) 339.4210 or (800) 447.4091, ext. 4210

The Therapeutic Massage curriculum prepares graduates to work in direct client care settings to provide manipulation, methodical pressure, friction and kneading of the body for maintaining wellness or treating alterations in wellness throughout the lifespan.

Courses will include content in normal human anatomy and physiology, therapeutic massage, ethical/legal issues, business practices, nutrition and psychology.

Employment opportunities include hospitals/rehabilitation centers, health departments, home health, medical offices, nursing homes, spas/health/sports clubs, and private practice. Graduates may be eligible to take the Massage and Bodywork Licensing Exam or the National Certification for Therapeutic Massage and Bodywork.

### DIPLOMA - D45750

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/therapeutic-massage-diploma>

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BIO	163	Basic Anatomy & Physiology I	4	2	0	5
ENG	111	Expository Writing	3	0	0	3
MTH	110	Fundamentals of Massage	6	2	3	10
		Totals	13	11	3	18

#### SPRING SEMESTER 1

BIO	271	Pathophysiology	3	0	0	3
MTH	120	Therapeutic Massage Applications	6	9	3	10
MTH	125	Ethics of Massage	2	0	0	2
NUT	110	Nutrition	3	0	0	3
		Totals	14	9	3	18

#### SUMMER SEMESTER 1

PSY	118	Interpersonal Psychology	3	0	0	3
		Totals	3	0	0	3

Total Semester Hour Credits: 39

### ADMISSIONS CRITERIA

The Therapeutic Massage program has a limited enrollment and only admits a class in the fall of each year. Applications and supporting documents must be complete and submitted by May 15 of the year in which the student wishes to enroll in the program. If all slots have not been filled after the above deadline, there may be extensions to the deadline. Please check with the Admissions office about the status of the program.

**PHASE I - To be completed by May 15**

The applicant must:

1. Complete an application for admission to the Program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED).  
Exception: current high school students
3. Submit official copies of all transcripts (high school and college). Transcripts must be sent directly from the institution. It is the responsibility of the applicant to assure that all necessary records are sent to the College Admissions Office.
4. Have a cumulative grade point average of 2.0 or higher on a 4.0 scale on the most recent academic transcript with ten semester hours completed excluding developmental courses.
5. Meet the Southwestern Community College Placement Test requirement.

This may be met by one of the following methods:

- a) Take and pass the following components of the Computerized Placement Test: reading comprehension and grammar. The test is administered several times each week on the Jackson and Macon Campuses and is free of charge. To schedule a test session, contact Testing Services at ext. 4332. If you do not pass the basic components of the placement test, you must enroll in and successfully complete the appropriate developmental coursework prior to the program deadline. If you are unsuccessful in achieving the appropriate cut-off scores in any component of the test, please see the academic retest policy.
- b) Submit acceptable SAT or ACT scores. See Admissions section of this catalog for additional details.
- c) Successful completion of college-level math and English courses.

**PHASE II**

Applicants who have successfully completed Phase 1 by the appropriate deadlines will be notified to attend a mandatory information session and personal interview.

**FACULTY**

**Mitch Fischer, Program Advisor**

[mfischer@southwesterncc.edu](mailto:mfischer@southwesterncc.edu)

(828) 339.4331 or (800) 447.4091, ext. 4331

The Carpentry curriculum is designed to train students to construct residential structures using standard building materials and hand and power tools. Carpentry skills and a general knowledge of residential construction will also be taught.

Course work includes footings and foundations, framing, interior and exterior trim, cabinetry, blueprint reading, residential planning and estimating, and other related topics. Students will develop skills through hands-on participation.

Graduates should qualify for employment in the residential building construction field as rough carpenters, framing carpenters, roofers, maintenance carpenters, and other related job titles.

### DIPLOMA D35180

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BPR	130	Blueprint Reading / Construction	1	2	0	2
CAR	110	Introduction to Carpentry	2	0	0	2
CAR	111	Carpentry I	3	15	0	8
CAR	112	Carpentry II	3	15	0	8
CAR	113	Carpentry III	3	0	9	6
CAR	115	Residential Planning / Estimating	3	0	0	3
CIS	111	Basic PC Literacy	1	2	0	2
COE	112	Co-op Work Experience I	0	0	20	2
CST	244	Sustainable Building Design	2	3	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	101	Applied Mathematics I	<u>2</u>	<u>2</u>	<u>0</u>	<u>3</u>
		Totals	23	39	29	42

Total Semester Hour Credits: 42

### CERTIFICATE C35180\*

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CAR	111	Carpentry I	3	15	0	8
CAR	112	Carpentry II	<u>3</u>	<u>15</u>	<u>0</u>	<u>8</u>
		Totals	6	30	0	16

Total Semester Hour Credits: 16

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

Available at these High Schools

Cherokee High School - Tres Rogers

Jackson County School of Alternatives - Matthew Shirey

Swain County High School - Derek Oetting

### CONTACT

**Cindy Thompson, College Access Coordinator**

cindy\_thompson@southwesterncc.edu

(828) 339.4610 or (800) 447.4091, ext. 4610



The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

#### CERTIFICATE C50420 & C50420CP\*

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
WLD	110	Cutting Processes	1	3	0	2
WLD	111	Oxy-Fuel Welding	1	3	0	2
WLD	115	SMAW (Stick) Plate	2	9	0	5
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD	131	GTAW (TIG) Plate	<u>2</u>	<u>6</u>	<u>0</u>	<u>4</u>
		Totals	8	27	0	17

Total Semester Hour Credits: 17

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

#### ADVISOR

**Scott Baker, Program Advisor**

scottb@southwesterncc.edu

(828) 339.4249 or (800) 447.4091, ext. 4249

The Web Technologies curriculum prepares graduates for careers in the information technology arena using computers and distributed computing to disseminate and collect information via the web.

Course work in this program covers the terminology and use of computers, network devices, networks, servers, databases, applications, programming languages, as well as web applications, site development and design. Studies will provide opportunity for students to learn related industry standards.

Graduates should qualify for career opportunities as designers, administrators, or developers in the areas of web applications, websites, web services, and related areas of distributed computing.

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A25290

#### FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
<u>Choose one of the following:</u>						
NET	110	Networking Concepts	2	2	0	3
SEC	110	Security Concepts	3	0	0	3
<u>Choose one of the following:</u>						
BUS	110	Introduction to Business	3	0	0	3
ETR	210	Introduction to Entrepreneurship	3	0	0	3
Totals			13-14	4-6	0	16

#### SPRING SEMESTER 1

CIS	115	Introduction to Programming & Logic	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	285	Emerging Web Technologies	2	2	0	3
Totals			13	12	0	18

#### SUMMER SEMESTER

MAT	140	Survey of Mathematics	3	0	0	3
***	***	Social Science Elective	3	0	0	3
***	***	Humanities Elective	3	0	0	3
Totals			9	0	0	9

#### FALL SEMESTER 2

WEB	111	Introduction to Web Graphics	2	2	0	3
WEB	151	Mobile Application Development I	2	2	0	3
WEB	210	Web Design	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3
<u>Choose one of the following:</u>						
CSC	151	JAVA Programming	2	3	0	3
CSC	284	Emerging Comp. Prog. Tech.	2	3	0	3
Totals			10	11	0	15

#### SPRING SEMESTER 2

COE	111	Co-op Work Experience I	0	0	10	1
WEB	180	Active Server Pages	2	2	0	3
WEB	225	Content Management Systems	2	2	0	3
WEB	251	Mobile Application Development II	2	2	0	3
<u>Choose two of the following:</u>						
WEB	120	Introduction to Internet Multimedia	2	2	0	3
WEB	230	Implementing Web SERV	2	2	0	3
WEB	289	Internet Technologies Project	1	4	0	3
Totals			9-10	10-12	10	16

Total Semester Credit Hours: 74

SCC offers certificate programs in Web Technologies that can stand alone or be combined with other degree options. Southwestern is also a testing center for Adobe certification and offers courses that focus on each of the Adobe Web Development tools.

### WEB DESIGN CERTIFICATE C25290D & C25290DP\*

Gainful Employment Compliance Information - For more information about SCC's graduation rates, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <http://www.southwesterncc.edu/program/web-design-certificate>

#### FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	110	Introduction to Computers	2	2	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
		Totals	4	4	0	6

#### SPRING SEMESTER 1

WEB	120	Introduction to Internet Multimedia	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
		Totals	4	4	0	6

#### FALL SEMESTER 2

WEB	111	Introduction to Web Graphics	2	2	0	3
WEB	210	Web Design	2	2	0	3
		Totals	4	4	0	6

Total Semester Hour Credits: 18

\* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 19 for additional information.

### MOBILE DEVELOPMENT CERTIFICATE C25290M

#### SPRING SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CIS	115	Introduction to Programming & Logic	2	3	0	3
WEB	285	Emerging Web Technologies	2	2	0	3
		Totals	4	5	0	6

#### FALL SEMESTER 2

CSC	151	JAVA Programming	2	3	0	3
WEB	151	Mobile Application Development I	2	2	0	3
		Totals	4	5	0	6

#### SPRING SEMESTER 2

CSC	284	Emerging Comp. Prog. Tech.	2	3	0	3
WEB	251	Mobile Application Development II	2	2	0	3
		Totals	4	5	0	6

Total Semester Hour Credits: 18

#### FACULTY

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Prefix.....	Field of Study	Prefix.....	Field of Study
ACA.....	Academic Related	HIT.....	Health Information Technology
ACC.....	Accounting	HRM.....	Hotel Restaurant Management
AHR.....	A/C, Heating & Refrigeration	HSC.....	Health Science
ANT.....	Anthropology	HSE.....	Human Services
ART.....	Art	HUM.....	Humanities
AUT.....	Automotive	LEX.....	Paralegal
BIO.....	Biology	MAT.....	Math
BPR.....	Blueprint Reading	MED.....	Medical Assisting/Related
BUS.....	Business	MKT.....	Marketing
CAR.....	Carpentry	MLT.....	Medical Laboratory Technology
CCT.....	Cyber Crime	MTH.....	Massage Therapy
CET.....	Computer Engineering Technology	MUS.....	Music
CHM.....	Chemistry	NAS.....	Nursing Assistant
CIS.....	Computer Information Technology	NET.....	Networking Technology
CIV.....	Civil Engineering	NOS.....	Networking Operating Systems
CJC.....	Criminal Justice	NUR.....	Nursing
COE.....	Cooperative Work Experience	NUT.....	Nutrition
COM.....	Communications	ODL.....	Outdoor Leadership
COS.....	Cosmetology	OST.....	Office Administration
CSC.....	Computer Science	PBT.....	Phlebotomy
CST.....	Construction	PED.....	Physical Education
CUL.....	Culinary	PHI.....	Philosophy
DBA.....	Database	PHY.....	Physics
DDT.....	Human Services	POL.....	Political Science
DFT.....	Drafting	PSY.....	Psychology
DMA.....	Developmental Math	PTA.....	Physical Therapist Assistant
ECM.....	Electronic Commerce	RAD.....	Radiography
ECO.....	Economics	RCP.....	Respiratory Therapy
EDU.....	Education/Early Childhood	RED.....	Reading
ELC.....	Electrical	REL.....	Religion
ELN.....	Electronics Engineering Technology	RLS.....	Real Estate
EMS.....	Emergency Medical Science	SAB.....	Substance Abuse
ENG.....	English	SEC.....	Information Systems Security
ENV.....	Environmental Science	SOC.....	Sociology
ETR.....	Entrepreneurship	SON.....	Medical Sonography
FRE.....	French	SPA.....	Spanish
GEO.....	Geography	SRV.....	Surveying
GRA.....	Graphics	SST.....	Sustainability Technologies
GRD.....	Graphic Design	SUR.....	Surgical Technology
GRO.....	Gerontology	WEB.....	Web Technologies
HEA.....	Health	WLD.....	Welding
HIS.....	History		

Performance Measures	Standard	Results for SCC	SCC Performance	Exceptional Performance
Progress of Basic Skills Students	75% Must Demonstrate Progress	75%	Measure met	Yes
Pass Rates on Licensure/ Certification Exams by First Time Test Takers	80% Overall Passing Rate Plus No Exam Lower Than 70% to be Exceptional	95% overall, 0 exams below 70%	Measure met	Yes
Performance of College Transfer Students	The Standard is- 83% of College Transfer Students Will Achieve a GPA Greater Than or Equal to a 2.0 After Two Semesters at a UNC Institution. To Achieve Exceptional Performance, the Percentage of College Transfer Students With a GPA of 2.0 or Higher Will Be Equivalent to the % of Native Juniors & Sophomores With a GPA of 2.0 or Higher.	SCC = 94% UNC = 87%	Measure met	Yes
Passing Rates in Developmental Courses	75% of Students Completing a Developmental Course Will Have a Grade of "C" or Higher	85%	Measure met	Yes
Success Rate of Developmental Students in Subsequent College Level Courses	80% of Students Completing a Developmental Course Will Earn a Passing Grade in the Subsequent College Level Course	86%	Measure met	Yes
Satisfaction of Completers & Non-completers With Programs and Services of the College	90% Will Report Being Satisfied With the Quality of the Programs & Services of the College	98%	Measure met	Yes
Curriculum Student Retention, Graduation & Transfer	65% of Fall Semester Cohort Will Graduate, Transfer to Another Community College or University, or Will Still be Enrolled the Following Fall Semester	71%	Measure met	Yes
Business/Industry Satisfaction With Customized Training	90% of Businesses/Industries Surveyed Will Report Satisfaction With the Services Provided by the College	94%	Measure met	Yes

# COURSE DESCRIPTIONS

## • Course Descriptions

### SUCCESS STORY

**Creating Success**  
NC Community Colleges  
Hope • Opportunity • Jobs

## Jonathan Gass

Distribution Engineering Associate  
Duke Energy



The same month Jonathan Gass graduated from Southwestern Community College with an associate degree in electronic engineering technology he started working full time at Duke Energy as a distribution engineering associate.

“Southwestern helped me achieve my goal,” said Jonathan. “When I first met Ron Poor, who is director of SCC’s computer and electronic engineering programs, I told him I wanted to work for Duke Energy because it is a growing company with great employees. Ron helped me secure a co-op with Duke and that led to a full-time position when I graduated.”

Jonathan credits his classroom training and knowledge with preparing him well for this job. “The foundations I learned, like Ohm’s Law, voltage calculations, capacitors, transformers-even problem solving-are knowledge that I use every day in my job,” he said.

Jonathan believes, “Success is based on how much effort you put into a goal. I appreciate how Southwestern helped me succeed with my goal of working at Duke Energy.”

**EXAMPLE:**

ACC 115 College Accounting (3-2-4)

3 = Class Hours Per Week

2 = Lab Hours Per Week

4 = Credit Hours Per Semester

NUR 125 Maternal-Child Nursing (5-3-6-8)

5 = Class Hours Per Week

3 = Lab Hours Per Week

6 = Clinical Hours Per Week

8 = Credit Hours Per Semester

**Prerequisite:** A course taken prior to another course. An underlined prerequisite indicates that it is a local prerequisite set by the academic administration at SCC.

**Corequisite:** A course taken at the same time as another course or prior to the course to be taken.

**ACADEMIC RELATED****ACA 111 College Student Success (1-0-1)**

This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives.

**ACA 115 Success & Study Skills (0-2-1)**

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

**ACA 118 College Study Skills (1-2-2)**

This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan.

**ACA 120 Career Assessment (1-0-1)**

This course provides the information and strategies necessary to develop clear personal, academic, and professional goals. Topics include personality styles, goal setting, various college curricula, career choices, and campus leadership development. Upon completion, students should be able to clearly state their personal, academic, and professional goals and have a feasible plan of action to achieve those goals.

**ACA 122 College Transfer Success (1-0-1)**

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ACA 220 Professional Transition (1-0-1)**

This course provides preparation for meeting the demands of employment or education beyond the community college experience. Emphasis is placed on strategic planning, gathering information on workplaces or colleges, and developing human interaction skills for professional, academic, and/or community life. Upon completion, students should be able to successfully make the transition to appropriate workplaces or senior institutions.

**ACCOUNTING****ACC 115 College Accounting (3-2-4)**

This course introduces basic accounting principles for a business. Topics include the complete accounting cycle with end-of-period statements, bank reconciliation, payrolls, and petty cash. Upon completion, students should be able to demonstrate an understanding of accounting principles and apply those skills to a business organization.

**ACC 120 Principles of Financial Accounting (3-2-4)**

This course introduces business decision-making accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations. This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.

**ACC 121 Principles of Managerial Accounting (3-2-4)**

Prerequisite: ACC 120

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.

**ACC 129 Individual Income Taxes (2-2-3)**

This course introduces the relevant laws governing individual income taxation. Topics include tax law, electronic research and methodologies, and the use of technology for preparation of individual tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various individual tax forms.

**ACC 150 Accounting Software Applications (1-2-2)**

Prerequisites: ACC 115 or ACC 120

This course introduces microcomputer applications related to accounting systems. Topics include general ledger, accounts receivable, accounts payable, inventory, payroll, and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to solve accounting problems.

**ACC 220 Intermediate Accounting I (3-2-4)**

Prerequisite: ACC 120

This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and an extensive analyses of financial statements. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards.



**ACC 221 Intermediate Accounting II (3-2-4)**

Prerequisite: ACC 220

This course is a continuation of ACC 220. Emphasis is placed on special problems which may include leases, bonds, investments, ratio analyses, present value applications, accounting changes, and corrections. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

**ACC 225 Cost Accounting (3-0-3)**

Prerequisite: ACC 121

This course introduces the nature and purposes of cost accounting as an information system for planning and control. Topics include direct materials, direct labor, factory overhead, process, job order, and standard cost systems. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

**ACC 227 Practices in Accounting (3-0-3)**

Prerequisite: ACC 220

This course provides an advanced in-depth study of selected topics in accounting using case studies and individual and group problem solving. Topics include cash flow, financial statement analysis, individual and group problem solving, practical approaches to dealing with clients, ethics, and critical thinking. Upon completion, students should be able to demonstrate competent analytical skills and effective communication of their analysis in written and/or oral presentations.

**ACC 240 Government & Not-for-Profit Accounting (3-0-3)**

Prerequisites: ACC 121

This course introduces principles and procedures applicable to governmental and not-for-profit organizations. Emphasis is placed on various budgetary accounting procedures and fund accounting. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

**AIR CONDITIONING, HEATING & REFRIGERATION****AHR 110 Introduction to Refrigeration (2-6-5)**

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

**AHR 112 Heating Technology (2-4-4)**

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system.

**AHR 113 Comfort Cooling (2-4-4)**

This course covers the installation procedures, system operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychometrics, manufacturer specifications, and test instruments to determine proper system operation.

**AHR 114 Heat Pump Technology (2-4-4)**

Prerequisites: AHR 110 or AHR 113

This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures.

**AHR 120 HVACR Maintenance (1-3-2)**

This course introduces the basic principles of industrial air conditioning and heating systems. Emphasis is placed on preventive maintenance procedures for heating and cooling equipment and related components. Upon completion, students should be able to perform routine preventive maintenance tasks, maintain records, and assist in routine equipment repairs.

**AHR 210 Residential Building Code (1-2-2)**

Prerequisite: AHR 110 and AHR 120

This course covers the residential building codes that are applicable to the design and installation of HVAC systems. Topics include current residential codes as applied to HVAC design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of residential building codes that apply to specific areas of the HVAC trade.

**AHR 211 Residential System Design (2-2-3)**

Prerequisite: AHR 110 and AHR 120

This course introduces the principles and concepts of conventional residential heating and cooling system design. Topics include heating and cooling load estimating, basic psychrometrics, equipment selection, duct system selection, and system design. Upon completion, students should be able to design a basic residential heating and cooling system.

**AHR 212 Advanced Comfort Systems (2-6-4)**

Prerequisite: AHR 114, AHR 110 and AHR 120

This course covers water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pump systems including variable speed drives and controls. Emphasis is placed on the application, installation, and servicing of water-source systems and the mechanical and electronic control components of advanced comfort systems. Upon completion, students should be able to test, analyze, and troubleshoot water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps.

**ANTHROPOLOGY****ANT 210 General Anthropology (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the physical, archaeological, linguistic, and ethnological fields of anthropology. Topics include human origins, genetic variations, archaeology, linguistics, primatology, and contemporary cultures. Upon completion, students should be able to demonstrate an understanding of the four major fields of anthropology. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**ANT 220 Cultural Anthropology (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the nature of human culture. Emphasis is placed on cultural theory, methods of fieldwork, and cross-cultural comparisons in the areas of ethnology, language, and the cultural past. Upon completion, students should be able to demonstrate an understanding of basic cultural processes and how cultural data are collected and analyzed. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**ANT 221 Comparative Cultures (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an ethnographic survey of societies around the world covering their distinctive cultural characteristics and how these relate to cultural change. Emphasis is placed on the similarities and differences in social institutions such as family, economics, politics, education, and religion. Upon completion, students should be able to demonstrate knowledge of a variety of cultural adaptive strategies. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**ART****ART 111 Art Appreciation (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms, including but not limited to, sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ART 114 Art History Survey I (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ART 115 Art History Survey II (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ART 121 Two-Dimensional Design (0-6-3)**

This course introduces the elements and principles of design as applied to two-dimensional art. Emphasis is placed on the structural elements, the principles of visual organization, and the theories of color mixing and interaction. Upon completion, students should be able to understand and use critical and analytical approaches as they apply to two-dimensional visual art. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 122 Three-Dimensional Design (0-6-3)**

This course introduces basic studio problems in three-dimensional visual design. Emphasis is placed on the structural elements and organizational principles as applied to mass and space. Upon completion, students should be able to apply three-dimensional design concepts. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 131 Drawing I (0-6-3)**

This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 132 Drawing II (0-6-3)**

Prerequisites: ART 131

This course continues instruction in the language of drawing and the use of various materials. Emphasis is placed on experimentation in the use of drawing techniques, media, and graphic materials. Upon completion, students should be able to demonstrate increased competence in the expressive use of graphic form and techniques.

**ART 231 Printmaking I (0-6-3)**

This course introduces printmaking; its history, development techniques, and processes. Emphasis is placed on basic applications with investigation into image source and development. Upon completion, students should be able to produce printed images utilizing a variety of methods. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 232 Printmaking II (0-6-3)**

Prerequisites: ART 231

This course includes additional methods and printmaking processes. Emphasis is placed on the printed image as related to method, source, and concept. Upon completion, students should be able to produce expressive images utilizing both traditional and innovative methods. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 240 Painting I (0-6-3)**

This course introduces the language of painting and the use of various painting materials. Emphasis is placed on the understanding and use of various painting techniques, media, and color principles. Upon completion, students should be able to demonstrate competence in the use of creative processes directed toward the development of expressive form. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 241 Painting II (0-6-3)**

Prerequisite: ART 240

This course provides a continuing investigation of the materials, processes, and techniques of painting. Emphasis is placed on the exploration of expressive content using a variety of creative processes. Upon completion, students should be able to demonstrate competence in the expanded use of form and variety. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 251 Weaving I (0-6-3)**

This course provides a basic understanding of the design and production of constructed textiles. Emphasis is placed on traditional weaving techniques. Upon completion, students should be able to warp and dress the loom and use appropriate techniques for the creation of unique woven fabrics. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 252 Weaving II (0-6-3)**

Prerequisite: ART 251

This course furthers an exploration of creative design as it relates to manipulated fiber construction. Emphasis is placed on traditional and experimental methods. Upon completion, students should be able to create fiber constructions that utilize appropriate techniques for individual expressive designs. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 261 Photography I (0-6-3)**

This course introduces photographic equipment, theory, and processes. Emphasis is placed on camera operation, composition, darkroom technique, and creative expression. Upon completion, students should be able to successfully expose, develop, and print a well-conceived composition. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 264 Digital Photography I (1-4-3)**

This course introduces digital photographic equipment, theory and processes. Emphasis is placed on camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 281 Sculpture I (0-6-3)**

This course provides an exploration of the creative and technical methods of sculpture with focus on the traditional processes. Emphasis is placed on developing basic skills as they pertain to three-dimensional expression in various media. Upon completion, students should be able to show competence in variety of sculptural approaches. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 282 Sculpture II (0-6-3)**

Prerequisites: ART 281

This course builds on the visual and technical skills learned in ART 281. Emphasis is placed on developing original solutions to sculptural problems in a variety of media. Upon completion, students should be able to express individual ideas using the techniques and materials of sculpture. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 283 Ceramics I (0-6-3)**

This course provides an introduction to three-dimensional design principles using the medium of clay. Emphasis is placed on fundamentals of forming, surface design, glaze application, and firing. Upon completion, students should be able to demonstrate skills in slab and coil construction, simple wheel forms, glaze technique, and creative expression. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 284 Ceramics II (0-6-3)**

Prerequisite: ART 283

This course covers advanced hand building and wheel techniques. Emphasis is placed on creative expression, surface design, sculptural quality, and glaze effect. Upon completion, students should be able to demonstrate a high level of technical competence in forming and glazing with a development of three-dimensional awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ART 288 Studio (0-6-3)**

This course provides the opportunity for advanced self-determined work beyond the limits of regular studio course sequences. Emphasis is placed on creative self-expression and in-depth exploration of techniques and materials. Upon completion, students should be able to create original projects specific to media, materials, and techniques. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**AUTOMOTIVE****AUT 110 Introduction to Auto Technology (2-2-3)**

This course covers workplace safety, hazardous material and environmental regulations, use of hand tools, service information resources, basic concepts, systems, and terms of automotive technology. Topics include familiarization with vehicle systems along with identification and proper use of various automotive hand and power tools. Upon completion, students should be able to describe safety and environmental procedures, terms associated with automobiles, identify and use basic tools and shop equipment.

**AUT 113 Automotive Servicing I (0-6-2)**

This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment.

**AUT 116 Engine Repair (2-3-3)**

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

**AUT 141 Suspension & Steering Systems (2-3-3)**

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires and balance wheels.

**AUT 141A Suspension & Steering Systems Lab (0-3-1)**

Corequisite: AUT 141

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

**AUT 151 Brake Systems (2-3-3)**

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

**AUT 151A Brake Systems Lab (0-3-1)**

Corequisite: AUT 151

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include drum and disc brakes involving hydraulic, vacuum-boost, hydra-boost, electrically powered boost, and anti-lock, parking brake systems and emerging brake systems technologies. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

**AUT 161 Basic Auto Electricity (4-3-5)**

This course covers basic electrical theory and wiring diagrams, test equipment, and diagnosis/repair/replacement of batteries, starters, alternators, and basic electrical accessories. Topics include diagnosis and repair of battery, starting, charging, lighting, and basic accessory systems problems. Upon completion, students should be able to diagnose, test, and repair the basic electrical components of an automobile.

**AUT 163 Advanced Auto Electricity (2-3-3)**

Prerequisite: AUT 161

This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

**AUT 163A Advanced Auto Electricity Lab (0-3-1)**

Corequisite: AUT 163

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, troubleshooting and emerging electrical/electronic systems technologies. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns.

**AUT 171 Auto Climate Control (2-4-4)**

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis/repair of climate control systems. Topics include diagnosis and repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information.

**AUT 181 Engine Performance I (2-3-3)**

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

**AUT 181A Engine Performance I - Lab (0-3-1)**

Corequisite: AUT 181

This course provides a laboratory setting to enhance the skills for diagnosing and restoring engine performance using electrical/electronics test equipment. Emphasis is placed on practical experiences that enhance the topics presented in AUT 181. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in AUT 181.

**AUT 183 Engine Performance II (2-6-4)**

Prerequisite: AUT 181

This course covers study of the electronic engine control systems, the diagnostic process used to locate engine performance concerns, and procedures used to restore normal operation. Topics will include currently used fuels and fuel systems, exhaust gas analysis, emission control components and systems, OBD II (on-board diagnostics) and inter-related electrical/electronic systems. Upon completion, students should be able to diagnose and repair complex engine performance concerns using appropriate test equipment and service information.

**AUT 212 Auto Shop Management (3-0-3)**

This course covers principles of management essential to decision making, communication, authority, and leadership. Topics include shop supervision, customer relations, cost effectiveness, and workplace ethics. Upon completion, students should be able to describe basic automotive shop operation from a management standpoint.

**AUT 221 Automatic Transmissions/Transaxles (2-3-3)**

This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory and diagnose and repair automatic drive trains.

**AUT 221A Automatic Transmissions/Transaxles Lab (0-3-1)**

Corequisite: AUT 221

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to diagnose and repair automatic drive trains.

**AUT 231 Manual Transmissions/Axles/Drive Trains (2-3-3)**

This course covers the operation, diagnosis, and repair of manual transmissions/transaxles, clutches, driveshafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train service and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory and diagnose and repair manual drive trains.



**AUT 231A Manual Transmissions/Axles/Drive Trains Lab (0-3-1)**

Corequisite: AUT 231

This course is an optional lab for the program that needs to meet NATEF hour standards but does not have a co-op component in the program. Topics include manual drive train diagnosis, service and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to diagnose and repair manual drive trains.

**AUT 281 Advanced Engine Performance (2-2-3)**

This course utilizes service information and specialized test equipment to diagnose and repair power train control systems. Topics include computerized ignition, fuel and emission systems, related diagnostic tools and equipment, data communication networks, and service information. Upon completion, students should be able to perform diagnosis and repair.

**AUT 283 Advanced Auto Electronics (2-2-3)**

Prerequisite: AUT 161

This course covers advanced electronic systems on automobiles. Topics include microcontrollers, on-board communications, telematics, hybrid systems, navigation, collision avoidance, and electronic accessories. Upon completion, students should be able to diagnose electronic systems using appropriate service information, procedures, and equipment and remove/replace/reprogram controllers, sensors, and actuators.

**BIOLOGY****BIO 090 Foundations of Biology (3-2-4)**

Corequisite: RED 090

This course introduces basic biological concepts. Topics include basic biochemistry, cell structure and function, interrelationships among organisms, scientific methodology, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level biology courses.

**BIO 110 Principles of Biology (3-3-4)**

Prerequisite: RED 090 or satisfactory test scores

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, taxonomy, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. **Note:** Students may not apply both BIO 110 and BIO 111 towards completion of Arts and Sciences Natural Science requirement.

**BIO 111 General Biology I (3-3-4)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, evolution, classification, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. **Note:** Students may not apply both BIO 110 and BIO 111 towards completion of Arts and Sciences Natural Science requirement.

**BIO 112 General Biology II (3-3-4)**

Prerequisite: BIO 111

This course is a continuation of BIO 111. Emphasis is placed on organisms, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**BIO 120 Introductory Botany (3-3-4)**

Prerequisites: BIO 110 or BIO 111

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**BIO 130 Introductory Zoology (3-3-4)**

Prerequisites: BIO 110 or BIO 111

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**BIO 140 Environmental Biology (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**BIO 140A Environmental Biology Lab (0-3-1)**

Prerequisite: RED 090 or satisfactory test scores

Corequisite: BIO 140

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**BIO 163 Basic Anatomy & Physiology (4-2-5)**

Prerequisite: RED 090 or satisfactory test scores

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BIO 168 Anatomy and Physiology I (3-3-4)**

Prerequisite: RED 090 or satisfactory test scores

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BIO 169 Anatomy and Physiology II (3-3-4)**

Prerequisite: BIO 168

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BIO 175 General Microbiology (2-2-3)**

Prerequisites: BIO 110, BIO, 111, BIO 163, BIO 165 or BIO 168

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BIO 271 Pathophysiology (3-0-3)**

Prerequisites: BIO 163, BIO 166, or BIO 169

This course provides an in-depth study of human pathological processes and their effects on homeostasis. Emphasis is placed on interrelationships among organ systems in deviations from homeostasis. Upon completion, students should be able to demonstrate a detailed knowledge of pathophysiology. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BLUEPRINT READING****BPR 130 Blueprint Reading/Construction (1-2-2)**

This course covers the interpretation of blueprints and specifications that are associated with the construction trades. Emphasis is placed on interpretation of details for foundations, floor plans, elevations, and schedules. Upon completion, students should be able to read and interpret a set of construction blueprints.

**BUSINESS****BUS 110 Introduction to Business (3-0-3)**

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BUS 115 Business Law I (3-0-3)**

This course introduces the ethics and legal framework of business. Emphasis is placed on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BUS 125 Personal Finance (3-0-3)**

This course provides a study of individual and family financial decisions. Emphasis is placed on building useful skills in buying, managing finances, increasing resources, and coping with current economic conditions. Upon completion, students should be able to develop a personal financial plan.

**BUS 135 Principles of Supervision (3-0-3)**

This course introduces the basic responsibilities and duties of the supervisor and his/her relationship to higher-level supervisors, subordinates, and associates. Emphasis is placed on effective utilization of the work force and understanding the role of the supervisor. Upon completion, students should be able to apply supervisory principles in the work place.

**BUS 137 Principles of Management (3-0-3)**

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**BUS 139 Entrepreneurship I (3-0-3)**

This course provides an introduction to the principles of entrepreneurship. Topics include self-analysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs.

**BUS 153 Human Resource Management (3-0-3)**

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

**BUS 230 Small Business Management (3-0-3)**

This course introduces the challenges of entrepreneurship including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan.

**BUS 260 Business Communication (3-0-3)**

Prerequisite: ENG 111

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the work place.

**BUS 280 REAL Small Business (4-0-4)**

This course introduces hands-on techniques and procedures for planning and opening a small business, including the personal qualities needed for entrepreneurship. Emphasis is placed on market research, finance, time management, and day-to-day activities of owning/operating a small business. Upon completion, students should be able to write and implement a viable business plan and seek funding.

**CARPENTRY (Huksins Students only)****CAR 110 Introduction to Carpentry (2-0-2)**

This course introduces the student to the carpentry trade. Topics include duties of a carpenter, hand and power tools, building materials, construction methods, and safety. Upon completion, students should be able to identify hand and power tools, common building materials, and basic construction methods.

**CAR 111 Carpentry I (3-15-8)**

This course introduces the theory and construction methods associated with the building industry, including framing, materials, tools, and equipment. Topics include safety, hand/power tool use, site preparation, measurement and layout, footings and foundations, construction framing, and other related topics. Upon completion, students should be able to safely lay out and perform basic framing skills with supervision.

**CAR 112 Carpentry II (3-15-8)**

Prerequisite: CAR 111

This course covers the advanced theory and construction methods associated with the building industry including framing and exterior finishes. Topics include safety, hand/power tool use, measurement and layout, construction framing, exterior trim and finish, and other related topics. Upon completion, students should be able to safely frame and apply exterior finishes to a residential building with supervision.

**CAR 113 Carpentry III (3-9-6)**

Prerequisite: CAR 111

This course covers interior trim and finishes. Topics include safety, hand/power tool use, measurement and layout, specialty framing, interior trim and finishes, cabinetry, and other related topics. Upon completion, students should be able to safely install various interior trim and finishes in a residential building with supervision.

**CAR 115 Residential Planning/Estimating (3-0-3)**

Prerequisite: BPR 130

This course covers project planning, management, and estimating for residential or light commercial buildings. Topics include planning and scheduling, interpretation of working drawings and specifications, estimating practices, and other related topics. Upon completion, students should be able to perform quantity take-offs and cost estimates.

**CYBER CRIME****CCT 110 Introduction to Cyber Crime (3-0-3)**

This course introduces and explains the various types of offenses that qualify as cyber crime activity. Emphasis is placed on identifying cyber crime activity and the response to these problems from both the private and public domains. Upon completion, students should be able to accurately describe and define cyber crime activities and select an appropriate response to deal with the problem.

**CCT 112 Ethics & High Technology (3-0-3)**

This course covers ethical considerations and accepted standard practices applicable to technological investigations and computer privacy issues relative to the cyber crime investigator. Topics include illegal and unethical investigative activities, end-justifying-the-means issues, and privacy issues of massive personal database information gathered by governmental sources. Upon completion, students should be able to examine their own value system and apply ethical considerations in identifiable cyber crime investigations.

**CCT 121 Computer Crime Investigation (3-2-4)**

This course introduces the fundamental principles of computer crime investigation processes. Topics include crime scene/incident processing, information gathering techniques, data retrieval, collection and preservation of evidence, preparation of reports and court presentations. Upon completion, students should be able to identify cyber crime activity and demonstrate proper investigative techniques to process the scene and assist in case prosecution.

**CCT 231 Technology Crimes & Law (3-0-3)**

This course covers the applicable technological laws dealing with the regulation of cyber security and criminal activity. Topics include an examination of state, federal and international laws regarding cyber crime with an emphasis on both general and North Carolina statutes. Upon completion, students should be able to identify the elements of cyber crime activity and discuss the trends of evolving laws.

**CCT 240 Data Recovery Techniques (2-3-3)**

This course introduces the unique skills and methodologies necessary to assist in the investigation and prosecution of cyber crimes. Topics include hardware and software issues, recovering erased files, overcoming encryption, advanced imaging, transient data, Internet issues and testimony considerations. Upon completion, students should be able to recover digital evidence, extract information for criminal investigation and legally seize criminal evidence.

**CCT 241 Advanced Data Recovery (2-3-3)**

Prerequisite: CCT 240

This course further explores the methodologies necessary to assist in the investigation and analysis of cyber crimes. Topics include commercial and open-source software tools for working with evidence acquisition, data recovery, and encryption. Upon completion, students should be able to perform the data recovery and analysis for a complete criminal or corporate investigation.

**CCT 250 Network Vulnerabilities I (2-2-3)**

Prerequisite: NET 110

This course introduces students to penetration testing, network vulnerabilities, and hacking. Topics include an overview of traditional network security, system hardening, and known weaknesses. Upon completion, students will be able to evaluate weaknesses related to traditional networks, wireless technologies, remote access, and network security devices such as firewalls and intrusion detection systems.

**CCT 251 Network Vulnerabilities II (2-2-3)**

Prerequisite: CCT 250

This course is a continuation of CCT 250 Network Vulnerabilities I. Topics include analyzing advanced techniques for circumventing network security hardware and software. Upon completion, students will be able to assemble a test kit for multiple operating systems, scan and footprint networks, and test all aspects of network vulnerability.

**CCT 260 Mobile Phone Examination (1-4-3)**

This course introduces the unique skills and methodologies necessary to assist in the investigation and prosecution of cyber crimes involving mobile phones. Topics include the basics of the cellular networks as well as data extraction from GSM, iDEN and CDMA handsets. Upon completion, students should be able to use the course processes and methodologies to obtain forensic evidence from GSM, iDEN and CDMA handsets.

**CCT 271 Mac Digital Forensics (1-4-3)**

This course provides students with the unique knowledge and skills necessary to analyze Macintosh operating system artifacts and file system mechanics. Topics include Macintosh architecture, HFS (+) based file systems, Macintosh decryption, address book and chat archives, Internet artifacts related to Safari and Firefox. Upon completion, students will be able to use the course processes and methodologies to forensically analyze a Mac computer.

**CCT 272 Forensic Password Recovery (1-4-3)**

This course introduces the unique skills and methodologies necessary to assist in the investigation and prosecution of cyber crimes involving decryption. Topics include decryption of PGP key rings, private keys, EFS hard drives, and encrypted containers. Upon completion, students will be able to use the course processes and methodologies to obtain forensic evidence from encrypted files, folders, and systems.

**CCT 285 Trends in Cyber Crime (2-2-3)**

Prerequisite: CCT 110

This course covers and explores advances and developments in cyber crime technologies. Emphasis is placed on computer forensics tools, information protection and security, threat response, and professional development. Upon completion, students should be able to articulate understanding of the current state of the industry as well as emerging technologies for cyber crime technology.

**CCT 289 Capstone Project (1-6-3)**

Prerequisite: CCT 231

This course provides experience in cyber crime investigations or technology security audits in either the public or private domain. Emphasis is placed on student involvement with businesses or agencies dealing with technology security issues or computer crime activities. Upon completion, students should be able to successfully analyze, retrieve erased evidence and testify in mock proceedings against these criminal entrepreneurs.

**COMPUTER ENGINEERING TECHNOLOGY****CET 110 Introduction to CET (0-3-1)**

This course introduces the basic skills required for computer technicians. Topics include career choices, safety practices, technical problem solving, scientific calculator usage, soldering/desoldering, keyboarding skills, engineering computer applications, and other related topics. Upon completion, students should be able to safely solder/desolder and use a scientific calculator and computer applications to solve technical problems.

**CET 111 Computer Upgrade/Repair I (2-3-3)**

This course covers repairing, servicing, and upgrading computers and peripherals in preparation for industry certification. Topics include CPU/memory/bus identification, disk subsystems, hardware/software installation/configuration, common device drivers, data recovery, system maintenance, and other related topics. Upon completion, students should be able to safely repair and/or upgrade computer systems to perform within specifications.

**CET 211 Computer Upgrade/Repair II (2-3-3)**

This course covers concepts of repair service, and upgrade of computers and peripherals in preparation for industry certification. Topics may include resolving resource conflicts and system bus specifications, configuration and troubleshooting peripherals, operating system configuration and optimization, and other related topics. Upon completion, students should be able to identify and resolve system conflicts and optimize system performance.

**CET 222 Computer Architecture (2-0-2)**

This course introduces the organization and design philosophy of computer systems with respect to resource management, throughput, and operating system interaction. Topics include instruction sets, registers, data types, memory management, virtual memory, cache, storage management, multi-processing, and pipelining. Upon completion, students should be able to evaluate system hardware and resources for installation and configuration purposes.

**CET 225 Digital Signal Processing (2-2-3)**

This course covers the theory and use of digital signal processing techniques. Topics include Fourier analysis, digital filtering, Z transforms, IIR, FIR, convolution, pulse methods, and DSP programming. Upon completion, students should be able to implement and troubleshoot DSP systems in hardware and software.

**CET 245 Internet Servers (2-3-3)**

This course covers the setup and management of Internet server hardware and software. Topics include TCP/IP, FTP, SMTP, and HTTP; installation and configuration of server software for web, FTP, DNS, mail, and other services. Upon completion, students should be able to set up and maintain Internet servers.



**CET 251 Software Engineering Principles (3-3-4)**

This course introduces the methodology used to manage the development process for complex software systems. Topics include the software life cycle, resource allocation, team dynamics, design techniques, and tools that support these activities. Upon completion, students should be able to design and build robust software in a team setting.

**CHEMISTRY****CHM 090 Chemistry Concepts (4-0-4)**

Prerequisites: RED 090, DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 060

This course provides a non-laboratory based introduction to basic concepts of chemistry. Topics include measurements, matter, energy, atomic theory, bonding, molecular structure, nomenclature, balancing equations, stoichiometry, solutions, acids and bases, gases, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts necessary for success in college-level science courses.

**CHM 131 Introduction to Chemistry (3-0-3)**

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, RED 090, and MAT 070 or satisfactory test scores

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**CHM 131A Introduction to Chemistry Lab (0-3-1)**

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, RED 090, and MAT 070 or satisfactory test scores

Corequisite: CHM 131

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**CHM 132 Organic and Biochemistry (3-3-4)**

Prerequisites: CHM 131 and CHM 131A or CHM 151

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**CHM 151 General Chemistry I (3-3-4)**

Prerequisites: RED 090, and MAT 161 or MAT 171, or satisfactory test scores

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**CHM 152 General Chemistry II (3-3-4)**

Prerequisite: CHM 151

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**COMPUTER INFORMATION TECHNOLOGY****CIS 070 Fundamentals of Computing (0-2-1)**

This course covers fundamentals functions and operations of the computer. Topics include identification of components, overview of operating systems, and other basic computer operations. Upon completion, students should be able to operate computers, access files, print documents and perform basic applications operations.

**CIS 110 Introduction to Computers (2-2-3)**

Prerequisite: CIS 070

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (Quantitative Option).

**CIS 111 Basic PC Literacy (1-2-2)**

Prerequisite: CIS 070

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills.

**CIS 115 Introduction to Programming & Logic (2-3-3)**

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (Quantitative Option).

**CIVIL ENGINEERING****CIV 110 Statics/Strength of Materials (2-6-4)**

Prerequisite: MAT 121, MAT 161, MAT 171, or MAT 175

This course includes vector analysis, equilibrium of force systems, friction, sectional properties, stress/strain, and deformation. Topics include resultants and components of forces, moments and couples, free-body diagrams, shear and moment diagrams, trusses, frames, beams, columns, connections, and combined stresses. Upon completion, students should be able to analyze simple structures.

**CIV 111 Soils and Foundations (2-3-3)**

Prerequisite: CIV 110

This course presents an overview of soil as a construction material using both analysis and testing procedures. Topics include index properties, classification, stress analysis, compressibility, compaction, dewatering, excavation, stabilization, settlement, and foundations. Upon completion, students should be able to perform basic soil tests and analyze engineering properties of soil.

**CIV 125 Civil/Surveying CAD (1-6-3)**

This course introduces civil/surveying computer-aided drafting (CAD) software. Topics include drawing, editing, and dimensioning commands; plotting; and other related civil/surveying topics. Upon completion, students should be able to produce civil/surveying drawings using CAD software.

**CIV 210 Engineering Materials (1-3-2)**

This course covers the behavior and properties of Portland cement and asphaltic concretes and laboratory and field-testing. Topics include cementing agents and aggregates; water and admixtures; proportioning, production, placing, consolidation, and curing; and inspection methods. Upon completion, students should be able to proportion concrete mixes to attain predetermined strengths and other properties and perform standard control tests.

**CIV 211 Hydraulics and Hydrology (2-3-3)**

Prerequisite: CIV 110

This course introduces the basic engineering principles and characteristics of hydraulics and hydrology. Topics include precipitation and runoff, fluid statics and dynamics, flow measurement, and pipe and open channel flow. Upon completion, students should be able to analyze and size drainage structures.

**CIV 212 Environmental Planning (2-3-3)**

Prerequisite: CIV 211

This course covers water and wastewater technology, erosion and sedimentation control, and other related topics. Topics include collection, treatment, and distribution of water and wastewater and erosion and sedimentation control law. Upon completion, students should be able to demonstrate knowledge of water and wastewater systems and prepare erosion and sedimentation control plans.

**CIV 215 Highway Technology (1-3-2)**

Prerequisite: SRV 111

Corequisite: CIV 211

This course introduces the essential elements of roadway components and design. Topics include subgrade and pavement construction, roadway drawings and details, drainage, superelevation, and North Carolina Department of Transportation Standards. Upon completion, students should be able to use roadway drawings and specifications to develop superelevation, drainage, and general highway construction details.

**CIV 230 Construction Estimating (2-3-3)**

Prerequisites: CIS 110, CIS 111, or EGR 115

This course covers quantity take-offs of labor, materials, and equipment and calculation of direct and overhead costs for a construction project. Topics include the interpretation of working drawings and specifications, types of contracts and estimates, building codes, bidding techniques and procedures, and estimating software. Upon completion, students should be able to prepare a detailed cost estimate and bid documents for a construction project.

**CIV 240 Project Management (2-3-3)**

This course introduces construction planning and scheduling techniques and project management software. Topics include construction safety, operation analysis, construction scheduling, construction control systems, claims and dispute resolutions, project records, and documentation. Upon completion, students should be able to demonstrate an understanding of the roles of construction project participants, maintain construction records, and prepare construction schedules.

**CIV 250 Civil Engineering Technology Project (1-3-2)**

This course includes an integrated team approach to civil engineering technology projects. Emphasis is placed on project proposal, site selection, analysis/design of structures, construction material selection, time and cost estimating, planning, and management of a project. Upon completion, students should be able to apply team concepts, prepare estimates, submit bid proposals, and manage projects.

**CRIMINAL JUSTICE****CJC 111 Introduction to Criminal Justice (3-0-3)**

This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**CJC 112 Criminology (3-0-3)**

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

**CJC 113 Juvenile Justice (3-0-3)**

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

**CJC 114 Investigative Photography (1-2-2)**

This course covers the operation of digital photographic equipment and its application to criminal justice. Topics include the use of digital cameras, storage of digital images, the retrieval of digital images and preparation of digital images as evidence. Upon completion, students should be able to demonstrate and explain the role and use of digital photography, image storage and retrieval in criminal investigations.

**CJC 120 Interviews/Interrogations (1-2-2)**

This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims.

**CJC 121 Law Enforcement Operations (3-0-3)**

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**CJC 122 Community Policing (3-0-3)**

This course covers the historical, philosophical, and practical dimensions of community policing. Emphasis is placed on the empowerment of police and the community to find solutions to problems by forming partnerships. Upon completion, students should be able to define community policing, describe how community policing strategies solve problems, and compare community policing to traditional policing.

**CJC 131 Criminal Law (3-0-3)**

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

**CJC 132 Court Procedure & Evidence (3-0-3)**

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.

**CJC 141 Corrections (3-0-3)**

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**CJC 144 Crime Scene Processing (2-3-3)**

This course introduces the theories and practices of crime scene processing and investigating. Topics include legal considerations at the crime scene, processing indoor and outdoor scenes, recording, note taking, collection and preservation of evidence and submission to the crime laboratory. Upon completion, the student should be able to evaluate and search various crime scenes and demonstrate the appropriate techniques.

**CJC 146 Trace Evidence (2-3-3)**

This course provides a study of trace evidence as it relates to forensic science. Topics include collection, packaging, and preservation of trace evidence from crime scenes such as bombings, fires and other scenes. Upon completion, students should be able to demonstrate the fundamental concepts of trace evidence collection, preservation and submission to the crime laboratory.

**CJC 212 Ethics & Community Relations (3-0-3)**

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

**CJC 213 Substance Abuse (3-0-3)**

This course is a study of substance abuse in our society. Topics include the history and classifications of drug abuse and the social, physical, and psychological impact of drug abuse. Upon completion, students should be able to identify various types of drugs, their effects on human behavior and society, and treatment modalities.

**CJC 214 Victimology (3-0-3)**

This course introduces the study of victims. Emphasis is placed on roles/characteristics of victims, victim interaction with the criminal justice system and society, current victim assistance programs, and other related topics. Upon completion, students should be able to discuss and identify victims, the uniqueness of victims' roles, and current victim assistance programs.

**CJC 215 Organization & Administration (3-0-3)**

This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations.

**CJC 221 Investigative Principles (3-2-4)**

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

**CJC 222 Criminalistics (3-0-3)**

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence. Consideration will also be given to the psychological profiling of serial criminal offenders.

**CJC 223 Organized Crime (3-0-3)**

This course introduces the evolution of traditional and non-traditional organized crime and its effect on society and the criminal justice system. Topics include identifying individuals and groups involved in organized crime, areas of criminal activity, legal and political responses to organized crime, and other related topics. Upon completion, students should be able to identify the groups and activities involved in organized crime and the responses of the criminal justice system.

**CJC 225 Crisis Intervention (3-0-3)**

This course introduces critical incident intervention and management techniques as they apply to operational criminal justice practitioners. Emphasis is placed on the victim/offender situation as well as job-related high stress, dangerous, or problem-solving citizen contacts. Upon completion, students should be able to provide insightful analysis of emotional, violent, drug-induced, and other critical and/or stressful incidents that require field analysis and/or resolution.

**CJC 231 Constitutional Law (3-0-3)**

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

**CJC 232 Civil Liability (3-0-3)**

This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues.

**CJC 241 Community-Based Corrections (3-0-3)**

This course covers programs for convicted offenders that are used both as alternatives to incarceration and in post-incarceration situations. Topics include offenders, diversion, house arrest, restitution, community service, probation and parole, including both public and private participation, and other related topics. Upon completion, students should be able to identify/discuss the various programs from the perspective of the criminal justice professional, the offender, and the community.

**CJC 245 Friction Ridge Analysis (2-3-3)**

This course introduces the basic elements of fingerprint technology and techniques applicable to the criminal justice field. Topics include the history and meaning of fingerprints, pattern types and classification, filing sequence, searching and referencing. Upon completion, students should be able to discuss and demonstrate the fundamental techniques of basic fingerprint technology. This course is a unique concentration requirement in the Latent Evidence concentration in the Criminal Justice Technology program.

**CJC 246 Advanced Friction Ridge Analysis (2-3-3)**

Prerequisite: CJC 245

This course introduces the theories and processes of advanced friction ridge analysis. Topics include evaluation of friction ridges, chart preparation, comparative analysis for valued determination rendering proper identification, chemical enhancement and AFIS preparation and usage. Upon completion, students must show an understanding of proper procedures for friction ridge analysis through written testing and practical exercises. This course is a unique concentration requirement in the Latent Evidence concentration in the Criminal Justice Technology program.

**CJC 250 Forensic Biology I (2-2-3)**

Corequisites: BIO 110 or BIO 111

This course covers important biological principles that are applied in the crime laboratory. Topics include forensic toxicology, forensic serology, microscopy, and DNA typing analysis, with an overview of organic and inorganic analysis. Upon completion, students should be able to articulate how a crime laboratory processes physical evidence submitted by law enforcement agencies.

**CJC 251 Forensic Chemistry I (3-2-4)**

This course provides a study of the fundamental concepts of chemistry as it relates to forensic science. Topics include physical and chemical properties of substances, metric measurements, chemical changes, elements, compounds, gases, and atomic structure. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of forensic chemistry.

**CJC 252 Forensic Chemistry II (3-2-4)**

Prerequisite: CJC 251

This course provides a study of specialized areas of chemistry specifically related to forensic science. Topics include properties of light, emission and absorption spectra, spectrophotometry, gas and liquid chromatography, and related topics in organic and biochemistry. Upon completion, students should be able to demonstrate an understanding of specialized concepts in forensic chemistry.

**CJC 255 Issues in Criminal Justice Applications (3-0-3)**

Prerequisites: CJC 111, CJC 221 and CJC 231

This course provides an opportunity to exhibit interpersonal and technical skills required for application of criminal justice concepts in contemporary practical situations. Emphasis is placed on critical thinking and integration of theory and practical skills components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level law enforcement officer.

**CJC 256 Forensic Surveying (2-3-3)**

This course provides students with the requisite understanding and skills necessary to employ surveying equipment to position and map a crime or traffic homicide scene. Topics include triangulation and rectangular coordinate grids, polar coordinates, establishing datum points, Global Positioning Systems and total station positioning and mapping. Upon completion, students should be able to accurately use a total station system for the purpose of positioning and mapping crime or traffic homicide scenes.



**COOPERATIVE EDUCATION****COE 111 Co-op Work Experience I (0-0-10-1)**

This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

**COE 112 Co-op Work Experience I (0-0-20-2)**

This course provides work experience with a college approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

**COE 114 Co-op Work Experience I (0-0-40-4)**

This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

**COE 115 Work Experience Seminar I (1-0-0-1)**

Corequisites: COE 111, COE 112, COE 113, or COE 114

This course provides an opportunity to discuss clinical experiences with peers and faculty. Emphasis is placed on discussing application of concepts and principles from related course content to clinical placement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes required in human services clinical experiences.

**COE 121 Co-op Work Experience II (0-0-10-1)**

This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

**COE 125 Work Experience Seminar II (1-0-0-1)**

Corequisites: COE 121 or COE 122

This course provides an opportunity to discuss clinical experiences with peers and faculty. Emphasis is placed on discussing application of concepts and principles from related course content to clinical placement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes required in human services clinical experiences.

**COMMUNICATION****COM 110 Introduction to Communication (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts (substitute). This course is also available through the Virtual Learning Community (VLC). Students may not apply both COM 110 and COM 231 towards completion of AA degree or Transfer Core Diploma requirements.

**COM 140 Introduction to Intercultural Communication (3-0-3)**

This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the principles and skills needed to become effective in communicating outside one's primary culture. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts (substitute).

**COM 231 Public Speaking (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts (substitute). Students may not apply both COM 110 and COM 231 towards completion of AA degree or Transfer Core Diploma requirements.

**COSMETOLOGY****COS 111 Cosmetology Concepts I (4-0-4)**

Corequisite: COS 112

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting.

**COS 112 Salon I (0-24-8)**

Corequisite: COS 111

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, haircutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services.

**COS 113 Cosmetology Concepts II (4-0-4)**

Prerequisite: COS 111

Corequisite: COS 114

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

**COS 114 Salon II (0-24-8)**Prerequisite: [COS 112](#)

Corequisite: COS 113

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

**COS 115 Cosmetology Concepts III (4-0-4)**Prerequisite: [COS 111](#)

Corequisite: COS 116

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

**COS 116 Salon III (0-12-4)**Prerequisite: [COS 112](#)

Corequisite: COS 115

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

**COS 117 Cosmetology Concepts IV (2-0-2)**Prerequisite: [COS 111](#)

Corequisite: COS 118

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

**COS 118 Salon IV (0-21-7)**Prerequisite: [COS 112](#)

Corequisite: COS 117

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements.

**COS 121 Manicure/Nail Technology I (4-6-6)**

This course covers techniques of nail technology, hand and arm massage, and recognition of nail diseases and disorders. Topics include OSHA/safety, sanitation, bacteriology, product knowledge, salesmanship, manicures, artificial applications, pedicures, massage, and other related topics. Upon completion, students should be able to safely and competently perform nail care, including manicures, pedicures, massage, decorating, and artificial applications in a salon setting.

**COS 222 Manicure/Nail Technology II (4-6-6)**

Prerequisite: COS 121

This course covers advanced techniques of nail technology and hand and arm massage. Topics include OSHA/safety, product knowledge, customer service, salesmanship, artificial applications, nail art, and other related topics. Upon completion, students should be able to demonstrate competence necessary for the licensing examination, including advanced nail care, artificial enhancements, and decorations.

**COMPUTER SCIENCE****CSC 134 C++ Programming (2-3-3)**

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**CSC 139 Visual BASIC Programming (2-3-3)**

This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**CSC 151 JAVA Programming (2-3-3)**

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs.

**CSC 284 Emerging Comp Prog Tech (2-3-3)**

This course provides students with the latest technologies and strategies in the field of Computer Programming. Emphasis is placed on the evaluation of developing Computer Programming Technologies and presenting those findings to the class. Upon completion, students should be able to critically analyze emerging Computer Programming Technologies and establish informed opinions.

**COMPUTER INFORMATION TECHNOLOGY****CTS 120 Hardware/Software Support (2-3-3)**

Prerequisites: CIS 110 or CIS 111

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

**CTS 130 Spreadsheet (2-2-3)**

Prerequisites: CIS 110 or CIS 111 or OST 137

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.

**CTS 250 User Support & Software Evaluation (2-2-3)**

Prerequisites: CTS 120 and NOS 130

This course provides an opportunity to evaluate software and hardware and make recommendations to meet end-user needs. Emphasis is placed on software and hardware evaluation, installation, training, and support. Upon completion, students should be able to present proposals and make hardware and software recommendations based on their evaluations.

**CTS 285 Systems Analysis & Design (3-0-3)**

Prerequisite: CIS 115

This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.

**CTS 286 Network Support (2-2-3)**

Prerequisites: NOS 230 or NOS 231

This course provides experience using CD ROM and on-line research tools and hands-on experience for advanced hardware support and troubleshooting. Emphasis is placed on troubleshooting network adapter cards and cabling, network storage devices, the DOS workstation, and network printing. Upon completion, students should be able to analyze, diagnose, research, and fix network hardware problems.

**CTS 287 Emerging Technologies (3-0-3)**

This course introduces emerging information technologies. Emphasis is placed on evolving technologies and trends in business and industry. Upon completion, students should be able to articulate an understanding of the current trends and issues in emerging technologies for information systems.

**CTS 289 System Support Project (1-4-3)**

Prerequisite: CTS 285

This course provides an opportunity to complete a significant support project with minimal instructor assistance. Emphasis is placed on written and oral communication skills, project definition, documentation, installation, testing, presentation, and user training. Upon completion, students should be able to complete a project from the definition phase through implementation.

**CONSTRUCTION****CST 244 Sustainable Bldg Design (2-3-3)**

This course is designed to increase student knowledge about integrating sustainable design principles and green building technologies into mainstream residential construction practices. Emphasis is placed on reducing negative environmental impact and improving building performance, indoor air quality and the comfort of a building's occupants. Upon completion, students should be able to identify principles of green building, environmental efficiency and conservation of natural resources in relation to basic construction practices.

**CULINARY****CUL 110 Sanitation & Safety (2-0-2)**

This course introduces the basic principles of sanitation and safety relative to the hospitality industry. Topics include personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate an understanding of the content necessary for successful completion of a nationally recognized food/safety/sanitation exam.

**CUL 110A Sanitation & Safety Lab (0-2-1)**

Corequisite: CUL 110

This course provides a laboratory experience for enhancing student skills in the basic principles of sanitation and safety. Emphasis is placed on personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate practical applications of sanitation and safety procedures in the hospitality industry.

**CUL 112 Nutrition for Foodservice (3-0-3)**

This course covers the principles of nutrition and its relationship to the foodservice industry. Topics include personal nutrition fundamentals, weight management, exercise, nutritional adaptation/analysis of recipes/menus, healthy cooking techniques and marketing nutrition in a foodservice operation. Upon completion, students should be able to apply basic nutritional concepts to food preparation and selection.

**CUL 120 Purchasing (2-0-2)**

This course covers purchasing for foodservice operations. Emphasis is placed on yield tests, procurement, negotiating, inventory control, product specification, purchasing ethics, vendor relationships, food product specifications and software applications. Upon completion, students should be able to apply effective purchasing techniques based on the end-use of the product.

**CUL 135 Food & Beverage Service (2-0-2)**

This course is designed to cover the practical skills and knowledge necessary for effective food and beverage service in a variety of settings. Topics include greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate competence in human relations and the skills required in the service of foods and beverages.

**CUL 135A Food & Beverage Service Lab (0-2-1)**

Corequisite: CUL 135

This course provides a laboratory experience for enhancing student skills in effective food and beverage service. Emphasis is placed on practical experiences including greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate practical applications of human relations and the skills required in the service of foods and beverages.

**CUL 140 Culinary Skills I (2-6-5)**

Corequisite: CUL 110

This course introduces the fundamental concepts, skills and techniques in basic cookery, and moist, dry and combination heat. Emphasis is placed on recipe conversion, measurements, terminology, classical knife cuts, safe food/equipment handling, flavorings/seasonings, stocks/sauces/soups, and related topics. Upon completion, students should be able to exhibit the basic cooking skills used in the foodservice industry.

**CUL 160 Baking I (1-4-3)**

Corequisite: CUL 110

This course covers basic ingredients, techniques, weights and measures, baking terminology and formula calculations. Topics include yeast/chemically leavened products, laminated doughs, pastry dough batter, pies/tarts, meringue, custard, cakes and cookies, icings, glazes and basic sauces. Upon completion, students should be able to demonstrate proper scaling and measurement techniques, and prepare and evaluate a variety of bakery products.

**CUL 170 Garde Manger I (1-4-3)**

Corequisites: CUL 110

This course introduces basic cold food preparation techniques and pantry production. Topics include salads, sandwiches, appetizers, dressings, basic garnishes, cheeses, cold sauces, and related food items. Upon completion, students should be able to present a cold food display and exhibit an understanding of the cold kitchen and its related terminology.

**CUL 230 Global Cuisines (1-8-5)**

Prerequisites: CUL 110 and CUL 140

This course provides practical experience in the planning, preparation, and presentation of representative foods from a variety of world cuisines. Emphasis is placed on indigenous ingredients and customs, nutritional concerns, and cooking techniques. Upon completion, students should be able to research and execute a variety of international and domestic menus.

**CUL 240 Culinary Skills II (1-8-5)**

Corequisites: CUL 110 and CUL 140

This course is designed to further students' knowledge of the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on meat identification/fabrication, butchery and cooking techniques/methods; appropriate vegetable/starch accompaniments; compound sauces; plate presentation; breakfast cookery; and quantity food preparation. Upon completion, students should be able to plan, execute, and successfully serve entrees with complementary side items.

**CUL 250 Classical Cuisine (1-8-5)**

Prerequisites: CUL 110, CUL 140, CUL 240

This course reinforces the classical culinary kitchen as established by Escoffier. Topics include the working Grand Brigade of the kitchen, table d'hote menus, signature dishes, and classical banquets. Upon completion, students should be able to demonstrate competence in food preparation in a classical/upscale restaurant or banquet setting.

**CUL 260 Baking II (1-4-3)**

Prerequisites: CUL 110, CUL 160

This course is designed to further students' knowledge in ingredients, weights and measures, baking terminology and formula calculation. Topics include classical desserts, frozen desserts, cake and torte production, decorating and icings/glazes, dessert plating and presentation. Upon completion, students should be able to demonstrate pastry preparation, plating, and dessert buffet production skills.

**DATABASE MANAGEMENT TECHNOLOGY****DBA 110 Database Concepts (2-3-3)**

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

**DEVELOPMENTAL DISABILITIES****DDT 110 Developmental Disabilities (3-0-3)**

This course identifies the characteristics and causes of various disabilities. Topics include history of service provision, human rights, legislation and litigation, advocacy, and accessing support services. Upon completion, students should be able to demonstrate an understanding of current and historical developmental disability definitions and support systems used throughout the life span.

**DEVELOPMENTAL MATHEMATICS****DMA 010 Operations with Integers (.75-.50-1)**

This course provides a conceptual study of integers and integer operations. Topics include integers, absolute value, exponents, square roots, perimeter and area of basic geometric figures, Pythagorean theorem, and use of the correct order of operations. Upon completion, students should be able to demonstrate an understanding of pertinent concepts and principles and apply this knowledge in the evaluation of expressions.

**DMA 020 Fractions & Decimals (.75-.50-1)**

Prerequisites: Take DMA 010 or satisfactory test scores

This course provides a conceptual study of the relationship between fractions and decimals and covers related problems. Topics include application of operations and solving contextual application problems, including determining the circumference and area of circles with the concept of pi. Upon completion, students should be able to demonstrate an understanding of the connections between fractions and decimals.

**DMA 030 Propor/Ratio/Rate/Percent (.75-.50-1)**

Prerequisites: Take DMA 010 and DMA 020 or satisfactory test scores

This course provides a conceptual study of the problems that are represented by rates, ratios, percent, and proportions. Topics include rates, ratios, percent, proportion, conversion of English and metric units, and applications of the geometry of similar triangles. Upon completion, students should be able to use their understanding to solve conceptual application problems.



**DMA 040 Express/Lin Equat/Inequal (.75-.50-1)**

Prerequisites: Take DMA 010, DMA 020 and DMA 030 or satisfactory test scores

This course provides a conceptual study of problems involving linear expressions, equations, and inequalities. Emphasis is placed on solving contextual application problems. Upon completion, students should be able to distinguish between simplifying expressions and solving equations and apply this knowledge to problems involving linear expressions, equations, and inequalities.

**DMA 050 Graphs/Equations of Lines (.75-.50-1)**

Prerequisites: Take DMA 010, DMA 020, DMA 030 and DMA 040 or satisfactory test scores

This course provides a conceptual study of problems involving graphic and algebraic representations of lines. Topics include slope, equations of lines, interpretation of basic graphs, and linear modeling. Upon completion, students should be able to solve contextual application problems and represent real-world situations as linear equations in two variables.

**DMA 060 Polynomial/Quadratic Appl (.75-.50-1)**

Prerequisites: Take DMA 010, DMA 020, DMA 030, DMA 040 and DMA 050 or satisfactory test scores

This course provides a conceptual study of problems involving graphic and algebraic representations of quadratics. Topics include basic polynomial operations, factoring polynomials, and solving polynomial equations by means of factoring. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic applications.

**DMA 070 Rational Express/Equation (.75-.50-1)**

Prerequisites: Take DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 and DMA 060 or satisfactory test scores

This course provides a conceptual study of problems involving graphic and algebraic representations of rational equations. Topics include simplifying and performing operations with rational expressions and equations, understanding the domain, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with rational applications.

**DMA 080 Radical Express/Equation (.75-.50-1)**

Prerequisites: Take DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060 and DMA 070 or satisfactory test scores

This course provides a conceptual study of the manipulation of radicals and the application of radical equations to real-world problems. Topics include simplifying and performing operations with radical expressions and rational exponents, solving equations, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with radical applications.

**DRAFTING****DFT 117 Technical Drafting (1-2-2)**

This course introduces basic drafting practices for non-drafting majors. Emphasis is placed on instrument use and care, shape and size description, sketching, and pictorials. Upon completion, students should be able to produce drawings of assigned parts.

**ELECTRONIC COMMERCE****ECM 168 Electronic Business (2-2-3)**

This course provides a survey of the world of electronic business. Topics include the definition of electronic business, current practices as they evolve using Internet strategy in business, and application of basic business principles to the world of Electronic Commerce. Upon completion, students should be able to define electronic business and demonstrate an understanding of the benefits of Electronic Commerce as a foundation for developing plans leading to electronic business implementation.

**ECM 210 Introduction to Electronic Commerce (2-2-3)**

This course introduces the concepts and tools to implement electronic commerce via the Internet. Topics include application and server software selection, securing transactions, use and verification of credit cards, publishing of catalogs, and site administration. Upon completion, students should be able to setup a working Electronic Commerce Internet web site.

**ECM 220 Electronic Commerce Planning & Implementation (2-2-3)**

This course builds on currently accepted business practices to develop a business plan and implementation model for Electronic Commerce. Topics include analysis and synthesis of the planning cycle, cost/benefit analysis, technical systems, marketing, security, financial support, Internet strategies, website design, customer support and feedback and assessment. Upon completion, students should be able to develop a plan for Electronic Commerce in a small to medium size business.

**ECM 230 Capstone Project (1-6-3)**

Prerequisite: ECM 220

This course provides experience in Electronic Commerce. Emphasis is placed on the implementation of an Electronic Commerce model for an existing business. Upon completion, students should be able to successfully develop and implement a plan for Electronic Commerce in a small to medium size business.

**ECONOMICS****ECO 151 Survey of Economics (3-0-3)**

This course introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**ECO 251 Principles of Microeconomics (3-0-3)**

This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**ECO 252 Principles of Macroeconomics (3-0-3)**

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**EDUCATION****EDU 119 Introduction to Early Child Education (4-0-4)**

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for all children. Topics include historical foundations, program types, career options, professionalism and creating inclusive environments and curriculum responsive to the needs of all children and families. Upon completion, students should be able to design career plans and develop schedules, environments and activity plans appropriate for all children. This course is also available through the Virtual Learning Community (VLC).

**EDU 131 Child, Family, & Community (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and RED 080

Set 2: ENG 085

This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/resources. Upon completion, students should be able to explain appropriate relationships between families, educators, and professionals that enhance development and educational experiences of all children. This course is also available through the Virtual Learning Community (VLC).

**EDU 144 Child Development I (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and RED 080

Set 2: ENG 085

This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. This course is also available through the Virtual Learning Community (VLC).

**EDU 145 Child Development II (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and RED 080

Set 2: ENG 085

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. This course is also available through the Virtual Learning Community (VLC).

**EDU 146 Child Guidance (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self control and the role of communication and guidance. Upon completion, students should be able to demonstrate direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors. This course is also available through the Virtual Learning Community (VLC).

**EDU 151 Creative Activities (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and RED 080

Set 2: ENG 085

This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and environments. This course is also available through the Virtual Learning Community (VLC).

**EDU 153 Health, Safety & Nutrition (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course covers promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, safe learning environments, and adhere to state regulations. This course is also available through the Virtual Learning Community (VLC).

**EDU 154 Social/Emotion/Behavioral Development (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080, RED 080, EDU 144, EDU 145

Set 2: ENG 080, RED 080, PSY 244, PSY 245

Set 3: ENG 085, EDU 144, EDU 145

Set 4: ENG 085, PSY 244, PSY 245

This course covers the emotional/social development of children and the causes, expressions, prevention and management of challenging behaviors in all children. Emphasis is placed on caregiver/family/child relationships, positive emotional/social environments, developmental concerns, risk factors, and intervention strategies. Upon completion, students should be able to identify factors influencing emotional/social development, utilizing screening measures, and designing positive behavioral supports.

**EDU 161 Introduction to Exceptional Children (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course covers children with exceptionalities as life long learners within the context of the community, school and family. Emphasis is placed on inclusion, legal, social/political, environmental, and cultural issues relating to the teaching of children with exceptionalities. Upon completion, students should be able to demonstrate knowledge of identification processes, inclusive techniques, and professional practices and attitudes.

**EDU 162 Observation & Assessment in ECE (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080, RED 080

Set 2: ENG 085

This course introduces the research, benefits, goals, and ethical considerations associated with observation and assessment in Early Childhood environments. Emphasis is placed on the implementation of multiple observation/assessment strategies including anecdotal records, event samples, rating scales, and portfolios to create appropriate learning experiences. Upon completion, students should be able to practice responsible assessment and use assessments to enhance programming and collaboration for children and families.

**EDU 163 Classroom Management & Instruction (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course covers management and instructional techniques with school-age populations. Topics include classroom management and organization, teaching strategies, individual student differences and learning styles, and developmentally appropriate classroom guidance techniques. Upon completion, students should be able to utilize developmentally appropriate behavior management and instructional strategies that enhance the teaching/learning process and promote students' academic success.

**EDU 175 Introduction to Trade & Industry (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course introduces the philosophy, scope, and objectives of industrial education. Topics include the development of industrial education, employment opportunities, current events, current practices, and emerging trends. Upon completion, students should be able to describe the history, identify current practices, and describe current trends in industrial education.

**EDU 176 Occupation Analysis & Course Development (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course covers the principles and techniques of analyzing occupations to select suitable competencies and teaching methods for learning activities. Topics include occupational analysis, instructional methods, competency identification, and curriculum writing. Upon completion, students should be able to identify competencies, organize instructional materials, and select appropriate instructional methods.

**EDU 177 Instructional Methods (2-2-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course covers instructional methods in technical education with emphasis on competency-based instruction. Topics include writing objectives, industrial methods, and determining learning styles. Upon completion, students should be able to select and demonstrate the use of a variety of instructional methods.

**EDU 178 Facilities Organization & Planning (2-2-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course is a study of the problems related to educational facilities planning, layout, and management. Emphasis is placed on applying basic principles to actual projects relating to specific occupational areas. Upon completion, students should be able to lay out an educational facility for an occupational area and develop a plan for the facilities.

**EDU 179 Vocational Student Organization (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 080 and ENG 080

Set 2: ENG 085

This course covers planning and organizing vocational youth clubs by understanding the structure and operating procedures to use club activities for personal and professional growth. Topics include self-assessment to set goals, club structure, election and installation of officers, club activities, function of committees, running meetings, contest preparation, and leadership skills. Upon completion students should be able to set personal goals, outline club structure, elect and install officers.

**EDU 184 Early Child Introductory Practicum (1-3-2)**

Prerequisites: Take one set

Set 1: ENG 080, RED 080, EDU 119

Set 2: ENG 085, EDU 119

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting in the implementation of developmentally appropriate activities/environments for all children; and modeling reflective/professional practices. Upon completion, students should be able to demonstrate developmentally appropriate interactions with children and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

**EDU 216 Foundations of Education (4-0-4)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course introduces the American educational system and the teaching profession. Topics include historical and philosophical foundations of education, contemporary educational, structural, legal, and financial issues, and experiences in public school classrooms. Upon completion, students should be able to relate classroom observations to the roles of teachers and schools and the process of teacher education. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement at WCU and other select institutions.

**EDU 221 Children with Exceptionalities (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090, RED 090, EDU 144 and EDU 145

Set 2: ENG 090, RED 090, PSY 244 and PSY 245

Set 3: ENG 095, EDU 144 and EDU 145

Set 4: ENG 095, PSY 244 and PSY 245

This course introduces children with exceptionalities, their families, support services, inclusive/diverse settings, and educational/family plans based on the foundations of child development. Emphasis is placed on the characteristics of exceptionalities, observation and assessment of children, strategies for adapting the learning environment, and identification of community resources. Upon completion, students should be able to recognize diverse abilities, describe the referral process, and depict collaboration with families/professionals to plan/implement, and promote best practice. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement at select institutions only. This course is also available through the Virtual Learning Community (VLC).

**EDU 234 Infants, Toddlers, & Twos (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090, RED 090 and EDU 119

Set 2: ENG 095 and EDU 119

This course covers the unique needs and rapid changes that occur in the first three years of life and the inter-related factors that influence development. Emphasis is placed on recognizing and supporting developmental milestones through purposeful strategies, responsive care routines and identifying elements of quality, inclusive early care and education. Upon completion, students should be able to demonstrate respectful relationships that provide a foundation for healthy infant/toddler/twos development, plan/select activities/materials, and partner with diverse families.

**EDU 240 Work-Based Learning Practice & Techniques (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course covers definitions and implementation strategies for various work-place learning programs including apprenticeship, cooperative education, entrepreneurship, field trip, internship, mentorship, school-based enterprise, service learning and shadowing. Topics include preparing vocational teachers to guide and involve students in work-based learning programs to help prepare for entry into the workforce. Upon completion, students should be able to work with students to assist with selection and involvement in work-based learning programs for career development.

**EDU 243 Learning Theory (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course provides lateral entry teachers an introduction to learning theory, various styles of learning, and motivational factors involved in the learning process. Emphasis is placed on the development of cognitive skills using the eight types of intelligence and applying these to practical classroom situations. Upon completion, students should be able to describe theories and styles of learning and discuss the relationship between different types of intelligence to learning motivation.

**EDU 244 Human Growth/Development (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course introduces lateral entry teachers to theories and ages and stages related to human growth and development from birth through adolescence. Emphasis is placed on development through the stages of a child's life in the areas of physical, emotional, social, intellectual, and moral development. Upon completion, students should be able to identify and describe milestones of each stage in all areas of development and discuss factors that influence growth.

**EDU 245 Policies and Procedures (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course is designed to introduce new lateral entry teachers to the policies and procedures established by the local education agency. Topics include emergency situation procedures, acceptable discipline, chain of command, role of mentors, evaluation procedures, employment requirements, dress codes, and other policies and procedures. Upon completion, students should be able to explain the policies and procedures to students, parents, or others and discuss the purpose of each policy category.

**EDU 251 Exploration Activities (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090, RED 090

Set 2: ENG 095

This course covers discovery experiences in science, math, and social studies. Emphasis is placed on developing concepts for each area and encouraging young children to explore, discover, and construct concepts. Upon completion, students should be able to discuss the discovery approach to teaching, explain major concepts in each area, and plan appropriate experiences for children.



**EDU 259 Curriculum Planning (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090, RED 090 and EDU 119

Set 2: ENG 095 and EDU 119

This course is designed to focus on curriculum planning for three to five year olds. Topics include philosophy, curriculum models, indoor and outdoor environments, scheduling, authentic assessment, and planning developmentally appropriate experiences. Upon completion, students should be able to evaluate children's development, critique curriculum, plan for individual and group needs, and assess and create quality environments.

**EDU 261 Early Childhood Administration I (3 -0 -3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

Corequisites: EDU 119

This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards of NC child care programs, finance, funding resources, and staff and organizational management. Upon completion, students should be able to develop components of program/personnel handbooks, a program budget, and demonstrate knowledge of fundamental marketing strategies and NC standards. This course is also available through the Virtual Learning Community (VLC).

**EDU 262 Early Childhood Administration II (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090, RED 090 and EDU 261

Set 2: ENG 095 and EDU 261

Corequisites: EDU 119

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs. This course is also available through the Virtual Learning Community (VLC).

**EDU 271 Educational Technology (2-2-3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course introduces the use of technology to enhance teaching and learning in all educational settings. Topics include technology concepts, instructional strategies, materials and adaptive technology for children with exceptionalities, facilitation of assessment/evaluation, and ethical issues surrounding the use of technology.

Upon completion, students should be able to apply technology enhanced instructional strategies, use a variety of technology resources and demonstrate appropriate technology skills in educational environments. This course is also available through the Virtual Learning Community (VLC).

**EDU 275 Effective Teacher Training (2-0-2)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course provides specialized training using an experienced-based approach to learning. Topics include instructional preparation and presentation, student interaction, time management, learning expectations, evaluation, and curriculum principles and planning. Upon completion, students should be able to prepare and present a six-step lesson plan and demonstrate ways to improve students' time-on-task.

**EDU 280 Language & Literacy Experiences (3-0-3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course is designed to expand students' understanding of children's language and literacy development and provides strategies for enhancing language/literacy experiences in an enriched environment. Topics include selection of diverse literature and interactive media, the integration of literacy concepts throughout the curriculum, appropriate observations/assessments and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate and diverse language/literacy experiences. This course is also available through the Virtual Learning Community (VLC).

**EDU 281 Instruction Strategies/Reading & Writing (2-2-3)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course covers concepts, resources, and methods for teaching reading and writing to elementary through middle-grade children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches and instructional strategies. Upon completion, students should be able to assess, plan, implement and evaluate school-age literacy experiences as related to the North Carolina Standard Course of Study. This course is also available through the Virtual Learning Community (VLC).

**EDU 284 Early Child Capstone Practices (1-9-4)**

Prerequisites: Take one set

Set 1: ENG 090, RED 090, EDU 119, EDU 144, EDU 145, EDU 146 and EDU 151

Set 2: ENG 095, EDU 119, EDU 144, EDU 145, EDU 146 and EDU 151

This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

**EDU 285 Internship Exp-School Age (1-9-4)**

Prerequisites: Take one set

Set 1: ENG 090, RED 090, EDU 144, EDU 145, EDU 216, EDU 163

Set 2: ENG 095, EDU 144, EDU 145, EDU 216, EDU 163

This course is designed to allow students to apply skills in a quality public or private school environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate lesson plans/assessments, appropriate guidance techniques, ethical/professional behaviors as indicated by assignments and onsite faculty visits.

**EDU 289 Adv. Issues/School Age Populations (2-0-2)**

Prerequisites: Take one set

Set 1: ENG 090 and RED 090

Set 2: ENG 095

This course covers advanced topics and issues that relate to school-age programs. Emphasis is placed on current advocacy issues, emerging technology, professional growth, ethics, and organizations for providers/teachers working with school-age populations. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues surrounding school-aged populations.

**ENGINEERING****EGR 115 Introduction to Technology (2-3-3)**

This course introduces the basic skills and career fields for technicians. Topics include career options, technical vocabulary, dimensional analysis, measurement systems, engineering graphics, calculator applications, professional ethics, safety practices, and other related topics. Upon completion, students should be able to demonstrate an understanding of the basic technologies, prepare drawings and sketches, and perform computations using a scientific calculator.

**EGR 285 Design Project (0-4-2)**

This course provides the opportunity to design and construct an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, construction, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate operational projects.

**ELECTRICITY****ELC 111 Introduction to Electricity (2-2-3)**

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronic majors. Topics include basic DC and AC principles (voltage, resistance, current, impedance); components (resistors, inductors, and capacitors); power; and operation of test equipment. Upon completion, students should be able to construct and analyze simple DC and AC circuits using electrical test equipment.

**ELC 112 DC/AC Electricity (3-6-5)**

This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment; and other related topics. Upon completion, students should be able to construct, verify, and analyze simple DC/AC circuits.

**ELC 113 Basic Wiring I (2-6-4)**

This course introduces the care/usage of tools and materials used in electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical blueprint reading; planning, layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with basic electrical installations.

**ELC 114 Basic Wiring II (2-6-4)**

This course provides additional instruction in the application of electrical tools, materials, and test equipment associated with electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with electrical installations.

**ELC 116 Telecom Cabling (1-2-2)**

This course introduces the theory and practical application of both copper and fiber cabling for telecom systems. Topics include transmission theory, noise, standards, cable types and systems, connectors, physical layer components, installation, and ground/shielding techniques. Upon completion, students should be able to choose the correct cable, install, test, and troubleshoot cabling for telecom.

**ELC 117 Motors and Controls (2-6-4)**

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

**ELC 128 Introduction to PLC (2-3-3)**

This course introduces the programmable logic controller (PLC) and its associated applications. Topics include ladder logic diagrams, input/output modules, power supplies, surge protection, selection/installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to install PLCs and create simple programs.

**ELC 131 DC/AC Circuit Analysis (4-3-5)**

This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation software, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment.

**ELECTRONICS****ELN 131 Semiconductor Applications (3-3-4)**

This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot discrete component circuits using appropriate techniques and test equipment.

**ELN 132 Linear IC Applications (3-3-4)**

This course introduces the characteristics and applications of linear integrated circuits. Topics include op-amp circuits, differential amplifiers, instrumentation amplifiers, waveform generators, active filters, PLLs, and IC voltage regulators. Upon completion, students should be able to construct, analyze, verify, and troubleshoot linear integrated circuits using appropriate techniques and test equipment.

**ELN 133 Digital Electronics (3-3-4)**

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, MSI and LSI circuits, AD/DA conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.

**ELN 152 Fabrication Techniques (1-3-2)**

This course covers the fabrication methods required to create a prototype product from the initial circuit design. Topics include CAD, layout, sheet metal working, component selection, wire wrapping, PC board layout and construction, reverse engineering, soldering, and other related topics. Upon completion, students should be able to design and construct an electronic product with all its associated documentation.

**ELN 215 Semiconductor Physics (3-0-3)**

This course introduces solid state physics and emphasizes semiconductors. Topics include quantum physics, the atom, solid state devices, and semiconductor and integrated circuit fabrication techniques. Upon completion, students should be able to apply these principles of physics to basic semiconductor fabrication.

**ELN 229 Industrial Electronics (2-4-4)**

This course covers semiconductor devices used in industrial applications. Topics include the basic theory, application, and operating characteristics of semiconductor devices (filters, rectifiers, FET, SCR, Diac, Triac, Op-amps, etc). Upon completion, students should be able to install and/or troubleshoot these devices for proper operation in an industrial electronic circuit.

**ELN 231 Industrial Controls (2-3-3)**

This course introduces the fundamental concepts of solid-state control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electro-mechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret ladder diagrams and demonstrate an understanding of electromechanical and electronic control of rotating machinery.

**ELN 232 Introduction to Microprocessors (3-3-4)**

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include assembly language programming, bus architecture, bus cycle types, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

**ELN 233 Microprocessor Systems (3-3-4)**

This course covers the application and design of microprocessor control systems. Topics include control and interfacing of systems using AD/DA, serial/parallel I/O, communication protocols, and other related applications. Upon completion, students should be able to design, construct, program, verify, analyze, and troubleshoot fundamental microprocessor interface and control circuits using related equipment.

**ELN 234 Communication Systems (3-3-4)**

This course introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications. Upon completion, students should be able to interpret analog and digital communication circuit diagrams, analyze transmitter and receiver circuits, and use appropriate communication test equipment.

**ELN 235 Data Communication System (3-3-4)**

This course covers data communication systems and the transmission of digital information from source to destination. Topics include data transmission systems, serial interfaces and modems, protocols, networks, and other related topics. Upon completion, students should be able to demonstrate knowledge of the concepts associated with data communication systems.

**ELN 257 Telecom Software (2-3-3)**

This course covers technical programming to solve telecommunication problems using, C, UNIX, or other application software. Emphasis is placed on modeling and analyzing selected communication circuits. Upon completion, students should be able to program, simulate, and emulate communication circuits.

**ELN 258 FCC Commercial License Preparation (3-0-3)**

This course provides a review of communications technology and federal regulation covered on the FCC General Radiotelephone License examination. Topics include transmitters, receivers, modulation types, antennas, transmission lines, wave propagation, troubleshooting, and FCC regulations. Upon completion, students should be able to demonstrate knowledge of the materials covered and be prepared for the FCC General Radiotelephone License Examination.

**ELN 264 Advanced Communication (4-3-5)**

This course provides an in-depth study of high-frequency RF circuits. Topics include RF, microwave circuits, transmission media, radar and antenna systems, and energy sources. Upon completion, students should be able to explain operating units; safely test, adjust, and troubleshoot systems; and design and demonstrate a simple system.

**ELN 275 Troubleshooting (1-3-2)**

This course covers techniques of analyzing and repairing failures in electronic equipment. Topics include safety, signal tracing, use of service manuals, and specific troubleshooting methods for analog, digital, and other electronics-based circuits and systems. Upon completion, students should be able to logically diagnose and isolate faults and perform necessary repairs to meet manufacturers' specifications.

**EMERGENCY MEDICAL CARE****EMS 110 EMT-Basic (5-6-7)**Prerequisite: ACA 111Corequisites: EMS 150

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT-Basic certification.

**EMS 115 Defense Tactics for EMS (1-3-2)**

This course is designed to provide tactics that can be used for self-protection in dangerous and violent situations. Emphasis is placed on prediction, recognition, and response to dangerous and violent situations. Upon completion, students should be able to recognize potentially hostile situations and protect themselves during a confrontation.

**EMS 120 Intermediate Interventions (2-3-3)**Prerequisites: EMS 110, current EMT-B certification

Corequisites: EMS 121 or EMS 122 and EMS 130, and EMS 131

This course is designed to provide the necessary information for interventions appropriate to the EMT-Intermediate and is required for intermediate certification. Topics include automated external defibrillation, basic cardiac electrophysiology, intravenous therapy, venipuncture, acid-base balance, and fluids and electrolytes. Upon completion, students should be able to properly establish an IV line, obtain venous blood, utilize AEDs, and correctly interpret arterial blood gases.

**EMS 121 EMS Clinical Practicum I (0-6-2)**Prerequisites: EMS 110, current EMT-B certification

Corequisites: EMS 120, EMS 130, and EMS 131

This course is the initial hospital and field internship and is required for intermediate and paramedic certification. Emphasis is placed on intermediate-level care. Upon completion, students should be able to demonstrate competence with intermediate-level skills.

**EMS 130 Pharmacology I for EMS (1-3-2)**

Prerequisites: EMS 110

Corequisites: EMS 120 and EMS 131, MAT 110

This course introduces the fundamental principles of pharmacology and medication administration and is required for intermediate and paramedic certification. Topics include terminology, pharmacokinetics, pharmacodynamics, weights, measures, drug calculations, legislation, and administration routes. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology.

**EMS 131 Advanced Airway Management (1-2-2)**

Prerequisite: EMS 110

Corequisites: EMS 120 and EMS 130

This course is designed to provide advanced airway management techniques and is required for intermediate and paramedic certification. Topics include respiratory anatomy and physiology, airway, ventilation, adjuncts, surgical intervention, and rapid sequence intubation. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.

**EMS 140 Rescue Scene Management (1-3-2)**

This course introduces rescue scene management and is required for paramedic certification. Topics include response to hazardous material conditions, medical incident command, and extrication of patients from a variety of situations. Upon completion, students should be able to recognize and manage rescue operations based upon initial and follow-up scene assessment.

**EMS 150 Emergency Vehicles & EMS Communication (1-3-2)**

This course examines the principles governing emergency vehicles, maintenance of emergency vehicles, and EMS communication equipment and is required for paramedic certification. Topics include applicable motor vehicle laws affecting emergency vehicle operation, defensive driving, collision avoidance techniques, communication systems, and information management systems. Upon completion, students should have a basic knowledge of emergency vehicles, maintenance, and communication needs.

**EMS 210 Advanced Patient Assessment (1-3-2)**

Prerequisites: EMS 120, EMS 121, EMS 130 and EMS 131

This course covers advanced patient assessment techniques and is required for paramedic certification. Topics include initial assessment, medical-trauma history, field impression, complete physical exam process, on-going assessment, and documentation skills. Upon completion, students should be able to utilize basic communication skills and record and report collected patient data.

**EMS 220 Cardiology (2-6-4)**

Prerequisites: EMS 120, EMS 130, and EMS 131

This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, rhythm interpretation, cardiac pharmacology, and patient treatment. Upon completion, students should be able to certify at the Advanced Cardiac Life Support Provider level utilizing American Heart Association guidelines.

**EMS 221 EMS Clinical Practicum II (0-9-3)**

Prerequisites EMS 121

This course is a continuation of the hospital and field internship required for paramedic certification. Emphasis is placed on advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.

**EMS 230 Pharmacology II for EMS (1-3-2)**

Prerequisites: EMS 130

This course explores the fundamental classification and action of common pharmacologic agents. Emphasis is placed on the action and use of compounds most commonly encountered in the treatment of chronic and acutely ill patients. Upon completion, students should be able to demonstrate general knowledge of drugs covered during the course.

**EMS 231 EMS Clinical Practicum III (0-9-3)**

Prerequisite: EMS 221

This course is a continuation of the hospital and field internship required for paramedic certification. Emphasis is placed on advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.



**EMS 235 EMS Management (2-0-2)**

This course stresses the principles of managing a modern emergency medical service system. Topics include structure and function of municipal governments, EMS grantsmanship, finance, regulatory agencies, system management, legal issues, and other topics relevant to the EMS manager. Upon completion, students should be able to understand the principles of managing emergency medical service delivery systems.

**EMS 240 Special Needs Patients (1-2-2)**

Prerequisites: EMS 120, EMS 121, EMS 130, and EMS 131

This course includes concepts of crisis intervention and techniques of dealing with special needs patients and is required for paramedic certification. Topics include behavioral emergencies, abuse, assault, challenged patients, personal well-being, home care, and psychotherapeutic pharmacology. Upon completion, students should be able to recognize and manage frequently encountered special needs patients.

**EMS 241 EMS Clinical Practicum IV (0-9-3)**

Prerequisite: EMS 231

This course is a continuation of the hospital and field internship required for paramedic certification. Emphasis is placed on advanced-level care. Upon completion, students should be able to provide advanced-level patient care as an entry-level paramedic.

**EMS 243 Wilderness EMT (1-2-2)**

Prerequisite: EMS 110

This course provides an overview of emergency care when separated from definitive care by distance, time, or circumstance. Topics include principles of long-term patient care, wilderness patient assessment system, medical and environmental emergencies, medication administration, modified CPR, and spine management. Upon completion, students should be able to demonstrate the knowledge and skills necessary to gain Wilderness EMT certification.

**EMS 250 Advanced Medical Emergencies (2-3-3)**

Prerequisites: EMS 120, EMS 121, EMS 130 and EMS 131

This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include pulmonology, neurology, endocrinology, anaphylaxis, gastroenterology, toxicology, and environmental emergencies integrating case presentation and emphasizing pharmacotherapeutics. Upon completion, students should be able to recognize and manage frequently encountered medical conditions based upon initial patient impression.

**EMS 260 Advanced Trauma Emergencies (1-3-2)**

Prerequisites: EMS 120, EMS 121, EMS 130 and EMS 131

Corequisite: [EMS 140](#)

This course provides in-depth study of trauma including pharmacological interventions for conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include hemorrhage control, shock, burns, and trauma to head, spine, soft tissue, thoracic, abdominal, and musculoskeletal areas with case presentations utilized for special problems situations. Upon completion, students should be able to recognize and manage trauma situations based upon patient impressions and should meet requirements of BTLS or PHTLS courses.

**EMS 270 Life Span Emergencies (2-2-3)**

Prerequisites: EMS 120, EMS 130, and EMS 131

This course, required for paramedic certification, covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death. Topics include gynecological, obstetrical, neonatal, pediatric, and geriatric emergencies and pharmacological therapeutics. Upon completion, students should be able to recognize and treat age-specific emergencies and certify at the Pediatric Advanced Life Support Provider level.

**EMS 280 EMS Bridging Course (2-2-0-3)**

This course is designed to bridge the knowledge gained in a continuing education paramedic program with the knowledge gained in an EMS curriculum program. Topics include patient assessment, documentation, twelve-lead ECG analysis, thrombolytic agents, cardiac pacing, and advanced pharmacology. Upon completion, students should be able to perform advanced patient assessment documentation using the problem-oriented medical record format and manage complicated patients.

**EMS 285 EMS Capstone (1-3-2)**

Prerequisites: EMS 220, EMS 250, and EMS 260

This course provides an opportunity to demonstrate problem-solving skills as a team leader in simulated patient scenarios and is required for paramedic certification. Emphasis is placed on critical thinking, integration of didactic and psychomotor skills, and effective performance in simulated emergency situations. Upon completion, students should be able to recognize and appropriately respond to a variety of EMS-related events.

**ENGLISH****ENG 060 Speaking English Well (2-0-2)**

This course is designed to improve oral communication skills. Emphasis is placed on practice using fluent standard spoken English. Upon completion, students should be able to speak appropriately in a variety of situations. This course does not satisfy the developmental reading and writing prerequisite for ENG 111 or ENG 111A.

**ENG 075 Reading & Language Essentials (5-0-5)**

This course uses whole language to develop proficiency in basic reading and writing. Emphasis is placed on increasing vocabulary, developing comprehension skills, and improving grammar. Upon completion, students should be able to understand and create grammatically and syntactically correct sentences. This course integrates ENG 070 and RED 070. This course does not satisfy the developmental reading and writing prerequisite for ENG 111 or ENG 111A.

**ENG 085 Reading & Writing Foundations (5-0-5)**

Prerequisites: ENG 075, or satisfactory test scores

This course uses whole language to develop proficiency in reading and writing for college. Emphasis is placed on applying analytical and critical reading skills to a variety of texts and on introducing the writing process. Upon completion, students should be able to recognize and use various patterns of text organization and compose effective paragraphs. This course integrates ENG 080 and RED 080. This course does not satisfy the developmental reading and writing prerequisites for ENG 111 or ENG 111A.

**ENG 090 Composition Strategies (3-0-3)**

Prerequisites: ENG 085, or satisfactory test scores.

Corequisite: ENG 090A

This course provides practice in the writing process and stresses effective paragraphs. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay. This course satisfies the developmental writing requirement for ENG 111 and ENG 111A.

**ENG 090A Composition Strategies Lab (0-2-1)**

Prerequisites: ENG 085, or satisfactory test scores

Corequisite: ENG 090

This writing lab is designed to practice the skills introduced in ENG 090. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay.

**ENG 091 Fast Track Comp Strategies (1-0-1)**

Prerequisites: Take One: ENG-080 or ENG-085

This course provides an intensive review of selected ENG 090-level writing skills. Topics include the following writing skills: composing coherent paragraphs and writing effective essays. Upon completion, students should be able to write coherent paragraphs and effective essays.

**ENG 095 Reading & Composition Strategies (5-0-5)**

Prerequisites: ENG 085, or satisfactory test scores

This course uses whole language to strengthen proficiency in reading and writing for college. Emphasis is placed on applying critical reading skills to narrative and expository texts and on using the writing process. Upon completion, students should be able to comprehend, analyze, and evaluate college texts and to compose essays in preparation for college writing. This course integrates ENG 090 and RED 090. This course satisfies the developmental reading and writing prerequisites for ENG 111 and ENG 111A.

**ENG 111 Expository Writing (3-0-3)**

Prerequisites: ENG 090 and RED 090; ENG 095 or satisfactory test scores

This course is the required first course in a series of two designed to develop the ability to produce clear expository prose. Emphasis is placed on the writing process including audience analysis, topic selection, thesis support and development, editing, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.

**ENG 111A Expository Writing Lab (0-2-1)**

Prerequisites: ENG 090 and RED 090; or ENG 095 or satisfactory test scores

Corequisite: ENG 111

This writing laboratory is designed to apply the skills introduced in ENG 111. Emphasis is placed on the editing and revision components of the writing process. Upon completion, students should be able to apply those skills in the production of final drafts in ENG 111.

**ENG 112 Argument-Based Research (3-0-3)**

Prerequisite: ENG 111

This course, the second in a series of two, introduces research techniques, documentation styles, and argumentative strategies. Emphasis is placed on analyzing data and incorporating research findings into documented argumentative essays and research projects. Upon completion, students should be able to summarize, paraphrase, interpret, and synthesize information from primary and secondary sources using standard research format and style. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.

**ENG 113 Literature-Based Research (3-0-3)**

Prerequisite: ENG 111

This course, the second in a series of two, expands the concepts developed in ENG 111 by focusing on writing that involves literature-based research and documentation. Emphasis is placed on critical reading and thinking and the analysis and interpretation of prose, poetry, and drama: plot, characterization, theme, cultural context, etc. Upon completion, students should be able to construct mechanically-sound, documented essays and research papers that analyze and respond to literary works. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.

**ENG 114 Professional Research & Reporting (3-0-3)**

Prerequisite: ENG 111

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.

**ENG 125 Creative Writing I (3-0-3)**

Prerequisite: ENG 111

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ENG 126 Creative Writing II (3-0-3)**

Prerequisite: ENG 125

This course is designed as a workshop approach for advancing imaginative and literary skills. Emphasis is placed on the discussion of style, techniques, and challenges for first publications. Upon completion, students should be able to submit a piece of their writing for publication. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ENG 131 Introduction to Literature (3-0-3)**

Prerequisite: ENG 111

Corequisite: ENG 112, ENG 113 or ENG 114

This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

Note: Students who successfully complete ENG 113 are advised to take a 200-level literature course, while those who complete ENG 114 should opt for ENG 131.

**ENG 231 American Literature I (3-0-3)**

Prerequisite: ENG 113 or ENG 114

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ENG 232 American Literature II (3-0-3)**

Prerequisites: ENG 113 or ENG 114

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ENG 241 British Literature I (3-0-3)**

Prerequisites: ENG 113 or ENG 114

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ENG 242 British Literature II (3-0-3)**

Prerequisites: ENG 113 or ENG 114

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ENG 251 Western World Literature I (3-0-3)**

Prerequisites: ENG 113 or ENG 114

This course provides a survey of selected European works from the Classical period through the Renaissance. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ENG 252 Western World Literature II (3-0-3)**

Prerequisites: ENG 113 or ENG 114

This course provides a survey of selected European works from the Neoclassical period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**ENG 272 Southern Literature (3-0-3)**

Prerequisites: ENG 113 or ENG 114

This course provides an analytical study of the works of several Southern authors. Emphasis is placed on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**ENTREPRENEURSHIP****ETR 220 Innovation and Creativity (3-0-3)**

This course provides a study of developing and enhancing individual and organizational creativity and innovation. Topics include that innovation needs to be applied to products, services, and processes to increase competitive advantages and add value to businesses. Upon completion, students should be able to apply innovation and creativity principles in the work place.

**ETR 230 Entrepreneur Marketing (3-0-3)**

This course covers the techniques to correctly research and define the target market to increase sales for start up businesses or to expand current businesses. Topics include how to target market and meet customers' needs with a limited budget in the early stages of the life of a start up business. Upon completion, students should be able to demonstrate an understanding of how to correctly target market for a start-up business with limited resources.

**ETR 240 Funding for Entrepreneurs (3-0-3)**

Prerequisites: ACC 120

This course provides a focus on the financial issues and needs confronting entrepreneurs attempting to grow their businesses by attracting startup and growth capital. Topics include sources of funding including: angel investors, venture capital, IPO's, private placement, banks, suppliers, buyers, partners, and the government. Upon completion, students should be able to demonstrate an understanding of how to effectively finance a business venture.

**ENVIRONMENTAL SCIENCE****ENV 110 Environmental Science (3-0-3)**

This course covers the environmental problems facing society today. Topics include population, natural resources, air and water pollution, and waste disposal problems. Upon completion, students should be able to demonstrate insight into the role the individual plays in shaping the environment.

**FRENCH****FRE 111 Elementary French I (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

Note: Elementary foreign language courses are secondary humanities courses; they will not count as the sole humanities selection in an AAS degree program.

**FRE 112 Elementary French II (3-0-3)**

Prerequisite: FRE 111

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

Note: Elementary foreign language courses are secondary humanities courses; they will not count as the sole humanities selection in an AAS degree program.

**FRE 211 Intermediate French I (3-0-3)**

Prerequisites: FRE 112

This course provides a review and expansion of the essential skills of the French language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**FRE 212 Intermediate French II (3-0-3)**

Prerequisites: FRE 211

This course is a continuation of FRE 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**GEOGRAPHY****GEO 111 World Regional Geography (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**GEO 112 Cultural Geography (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course is designed to explore the diversity of human cultures and to describe their shared characteristics. Emphasis is placed on the characteristics, distribution, and complexity of earth's cultural patterns. Upon completion, students should be able to demonstrate an understanding of the differences and similarities in human cultural groups. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**GRAPHIC ARTS****GRA 121 Graphic Arts I (2-4-4)**

This course introduces terminology, tools and materials, procedures, and equipment used in graphic arts production. Topics include copy preparation and pre-press production relative to printing. Upon completion, students should be able to demonstrate an understanding of graphic arts production.

**GRA 220 Industry Survey (1-2-2)**

This course explores various graphic arts businesses and trade associations through tours, guest speakers, and research. Emphasis is placed on presenting a broad industry overview through research of a variety of industry activities and relationships. Upon completion, students should be able to describe local graphic arts businesses and local and national trade and professional associations.

**GRAPHIC DESIGN****GRD 110 Typography I (2-2-3)**

This course introduces the history and mechanics of type and its application to layout and design. Topics include typographic fundamentals, anatomy, measurements, composition, identification, and terminology. Upon completion, students should be able to demonstrate proficiency in design application, analysis, specification, and creation of typographic elements.

**GRD 121 Drawing Fundamentals I (1-3-2)**

This course increases observation skills using basic drawing techniques and media in graphic design. Emphasis is placed on developing the use of graphic design principles, media applications, spatial considerations, drawing styles, and approaches. Upon completion, students should be able to show competence and proficiency in finished works.

**GRD 131 Illustration I (1-3-2)**

Prerequisites: ART 131, DES 125, or GRD 121

This course introduces the application of rendering techniques to create illustrations. Emphasis is placed on controlling various media, methods, surfaces, design problems, and the appropriate media selection process. Upon completion, students should be able to produce quality illustrations from conception through finished artwork.

**GRD 141 Graphic Design I (2-4-4)**

This course introduces the conceptualization process used in visual problem solving. Emphasis is placed on learning the principles of design and on the manipulation and organization of elements. Upon completion, students should be able to apply design principles and visual elements to projects.

**GRD 142 Graphic Design II (2-4-4)**

Prerequisites: ART 121, DES 135, or GRD 141

This course covers the application of visual elements and design principles in advertising and graphic design. Topics include creation of various designs, such as logos, advertisements, posters, outdoor advertising, and publication design. Upon completion, students should be able to effectively apply design principles and visual elements to projects.



**GRD 145 Design Applications I (0-3-1)**

Corequisite: GRD 141

This course introduces visual problem solving. Emphasis is placed on application of design principles. Upon completion, students should be able to produce projects utilizing basic design concepts.

**GRD 146 Design Applications II (0-3-1)**

Corequisite: GRD 142

This course is designed to provide additional hands-on training in graphic design. Emphasis is placed on producing comprehensive projects utilizing concepts and technologies covered in GRD 141 and GRD 142. Upon completion, students should be able to provide solutions to design problems.

**GRD 151 Computer Design Basics (1-4-3)**

This course covers designing and drawing with various types of software applications for advertising and graphic design. Emphasis is placed on creative and imaginative use of space, shapes, value, texture, color, and typography to provide effective solutions to advertising and graphic design problems. Upon completion, students should be able to use the computer as a creative tool.

**GRD 152 Computer Design Technology I (1-4-3)**

Prerequisite: GRD 151

This course covers complex design problems utilizing various design and drawing software applications. Topics include the expressive use of typography, image, and organization to communicate a message. Upon completion, students should be able to use appropriate computer software to professionally present their work.

**GRD 153 Computer Design Technology II (1-4-3)**

Prerequisite: GRD 152

This course covers advanced theories and practices in the field of computer design. Emphasis is placed on advanced use of color palettes, layers, and paths. Upon completion, students should be able to creatively produce designs and articulate their rationale.

**GRD 160 Photo Fundamentals I (1-4-3)**

This course introduces basic camera operations, roll film processing, and photographic print production. Topics include contrast, depth-of-field, subject composition, enlarger operation, and density control. Upon completion, students should be able to produce photographic prints with acceptable density values and quality.

**GRD 167 Photographic Imaging I (1-4-3)**

This course introduces basic camera operations and photographic production. Topics include subject composition, depth of field, shutter control, light control, color, photo-finishing, and digital imaging, correction and output. Upon completion, students should be able to produce traditional and/or digital photographic prints with acceptable technical and compositional quality.

**GRD 168 Photographic Imaging II (1-4-3)**

Prerequisites: GRD 167

This course introduces advanced camera operations and photographic production. Topics include lighting, specialized equipment, digital image correction and output, and other methods and materials. Upon completion, students should be able to demonstrate proficiency in producing high quality photographic prints.

**GRD 210 Airbrush I (1-2-2)**

This course covers the mechanics of airbrushing. Topics include care and maintenance of equipment, spraying techniques and surfaces, and selection of materials. Upon completion, students should be able to produce work demonstrating competent use of an airbrush.

**GRD 230 Technical Illustration (1-3-2)**

Prerequisite: GRD 121

This course introduces technical and industrial illustration techniques. Topics include orthographic, isometric, linear perspective, and exploded views. Upon completion, students should be able to demonstrate competence in various technical rendering techniques.

**GRD 241 Graphic Design III (2-4-4)**

Prerequisites: DES 136 or GRD 142

This course is an advanced exploration of various techniques and media for advertising and graphic design. Emphasis is placed on advanced concepts and solutions to complex and challenging graphic design problems. Upon completion, students should be able to demonstrate competence and professionalism in visual problem solving.

**GRD 242 Graphic Design IV (2-4-4)**

Prerequisite: GRD 241

This course is a continuation of GRD 241. Emphasis is placed on using advanced media techniques, concepts, strategies, and professionalism in all aspects of design. Upon completion, students should be able to conceptualize, create, and produce designs for reproduction.

**GRD 247 Design Applications IV (0-3-1)**

Corequisite: GRD 242

This course is designed to provide additional hands-on training in graphic design. Emphasis is placed on producing sophisticated design projects utilizing concepts and techniques covered in GRD 242. Upon completion, students should be able to solve complex design problems by producing projects to meet client specifications for reproduction.

**GRD 280 Portfolio Design (2-4-4)**

Prerequisites: GRD 142 and GRD 152 or GRA 152

This course covers the organization and presentation of a design/advertising or graphic art portfolio and appropriate related materials. Emphasis is placed on development and evaluation of the portfolio, design and production of a résumé and self-promotional materials, and interview techniques. Upon completion, students should be able to prepare and professionally present an effective portfolio and related self-promotional materials.

**GRD 281 Design of Advertising (2-0-2)**

This course explores the origins, roles, scope, forms, and development of advertising. Emphasis is placed on advertising development from idea through production and the interrelationship of marketing to types of advertising, media, and organizational structure. Upon completion, students should be able to demonstrate an understanding of the complexities and relationships involved in advertising design.

**GERONTOLOGY****GRO 120 Gerontology (3-0-0-3)**

This course covers the psychological, social, and physical aspects of aging. Emphasis is placed on the factors that promote mental and physical well-being. Upon completion, students should be able to recognize the aging process and its psychological, social, and physical aspects.

**HEALTH****HEA 110 Personal Health/Wellness (3-0-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**HISTORY****HIS 111 World Civilizations I (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**HIS 112 World Civilizations II (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**HIS 115 Introduction to Global History (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the study of global history. Emphasis is placed on topics such as colonialism, industrialism, and nationalism. Upon completion, students should be able to analyze significant global historical issues. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**HIS 121 Western Civilization I (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and the emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**HIS 122 Western Civilization II (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**HIS 131 American History I (3-0-3)**

Prerequisite: [RED 090](#) or [satisfactory test scores](#)

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**HIS 132 American History II (3-0-3)**

Prerequisite: [RED 090](#) or [satisfactory test scores](#)

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**HIS 145 The Second World War (3-0-3)**

Prerequisite: [RED 090](#) or [satisfactory test scores](#)

This course covers the period of the Second World War from 1919 to 1945. Topics include the Treaty of Versailles, the rise of totalitarian regimes, the origins of the war, the major military campaigns in Europe and the Pacific, and the aftermath. Upon completion, students should be able to analyze significant political, military, socioeconomic, and cultural developments that influenced the Second World War. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**HIS 233 History of Appalachia (3-0-3)**

Prerequisite: [RED 090](#) or [satisfactory test scores](#)

This course introduces the Appalachian region and its relationship to mainstream American history. Topics include regional settlement patterns and a study of Appalachian culture. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in Appalachia. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**HIS 237 The American Revolution (3-0-3)**

This course introduces the political, socioeconomic, religious, and ideological forces that led to the American Revolution, and the causes and consequences of the conflict. Topics include the prewar situation, wartime internal dynamics, international diplomacy, military strategy, tactics, and campaigns, and the Revolution's impact, aftermath, and consequences. Upon completion, students should be able to analyze significant political, socioeconomic, religious, ideological, international, and military developments in the United States during the Revolutionary Era. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**HIS 275 History of Terrorism (3-0-3)**

This course introduces the study of modern terrorism, from the French Revolutionary Era to the 21st century. Topics include definitions and types of terrorism, theories regarding its causes, examples of modern terrorism, counterterrorism, and terrorism's impact, consequences, and future. Upon completion, students should be able to analyze significant socioeconomic, psychological, ideological, religious, and political components of modern terrorism. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**HEALTH INFORMATION TECHNOLOGY****HIT 110 Fundamentals of HIM (3-0-3)**

This course introduces Health Information Management (HIM) and its role in healthcare delivery systems. Topics include standards, regulations and initiatives; payment and reimbursement systems, healthcare providers and disciplines; and electronic health records (EHRs). Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions and trends.

**HIT 112 Health Law and Ethics (3-0-3)**

This course covers legislative and regulatory processes, legal terminology, and professional-related and practice-related ethical issues. Topics include confidentiality; privacy and security policies, procedures and monitoring; release of information policies and procedures; and professional-related and practice-related ethical issues. Upon completion, students should be able to apply policies and procedures for access and disclosure of Protected Health Information and apply and promote ethical standards.

**HIT 114 Health Data Systems/Standards (2-3-3)**

This course covers concepts and techniques for managing and maintaining manual and electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems, and quality and integrity of healthcare data. Upon completion, students should be able to monitor and apply system-wide clinical documentation guidelines and comply with regulatory standards.

**HIT 122 Professional Practice Experience I (0-3-1)**

This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

**HIT 124 Professional Practice Experience II (0-3-1)**

This course provides supervised clinical experience in health care settings. Emphasis is placed on practical application of curriculum concepts to the health care setting. Upon completion, students should be able to apply health information theory to health care facility practices.

This directed practice is in a nontraditional setting such as doctor's office, nursing home, or clinic.

**HIT 210 Healthcare Statistics (2-2-3)**

Prerequisites: MAT 110, MAT 115 or MAT 140

This course covers maintenance, compilation, analysis, and presentation of healthcare statistics and research protocols and techniques. Topics include basic statistical principles, indices, databases, registries, vital statistics, descriptive statistics, research protocol monitoring, Institutional Review Board processes, and knowledge-based research techniques. Upon completion, students should be able to apply, interpret, and present healthcare statistics and utilize research techniques to gather and interpret healthcare data.

**HIT 211 ICD - Coding (2-6-4)**

This course covers ICD diagnostics and procedural coding conventions and guidelines for inpatient, outpatient and ambulatory care. Emphasis is placed on a comprehensive application of anatomy, physiology and interrelationships among organ systems. Upon completion, students should be able to accurately assign and sequence diagnostic and procedural codes for patient outcomes, statistical and reimbursement purposes.

**HIT 214 CPT/Other Coding Systems (1-3-2)**

Prerequisite: HIT 211

This course covers application of principles and guidelines of CPT/HCPCS coding. Topics include clinical classification/nomenclature systems such as SNOMED, DSM, ICD-O and the use of encoders. Upon completion, students should be able to apply coding principles to correctly assign CPT/HCPCS codes.

**HIT 215 Reimbursement Methodology (1-2-2)**

This course covers reimbursement methodologies used in all healthcare settings as they relate to national billing, compliance, and reporting requirements. Topics include prospective payment systems, billing process and procedures, chargemaster maintenance, regulatory guidelines, reimbursement monitoring, and compliance strategies and reporting. Upon completion, students should be able to perform data quality reviews to validate code assignment and comply with reimbursement and reporting requirements.

**HIT 216 Quality Management (1-3-2)**

Prerequisite: HIT 114

This course introduces principles of quality assessment and improvement, and utilization, risk, and case management, in healthcare. Topics include Continuous Quality Improvement, and case management processes, data analysis/reporting techniques, credentialing, regulatory quality monitoring requirements, and outcome measures and monitoring. Upon completion, students should be able to abstract, analyze, and report clinical data for facility-wide quality management/performance improvement programs and monitor compliance measures.

**HIT 218 Management Principles in HIT (3-0-0-3)**

This course covers organizational management concepts as applied to healthcare settings. Topics include roles/functions of teams/committees, leadership, communication and interpersonal skills, designing and implementing orientation/training programs, monitoring workflow, performance standards, revenue cycles, and organizational resources. Upon completion, students should be able to apply management, leadership, and supervisory concepts to various healthcare settings.

**HIT 220 Health Informatics and EHR's (1-2-0-2)**

Prerequisites: Take HIT 114 and CIS 110 or CIS 111

This course covers electronic health record (EHR) systems, design, implementation and application. Topics include EHR, Informatics, speech & imaging technology, information/network security & integrity, data dictionaries, modeling and warehousing. Upon completion, students should be able to facilitate usage of electronic health record systems and other technologies.

**HIT 221 Lifecycle of EHR (2-2-0-3)**

This course covers the system selection, design and implementation of an electronic health record (EHR) in integrated delivery networks. Topics include the system development life cycle, analysis of existing systems, required resources, and common resource constraints. Upon completion, students should be able to understand system development life cycles, analyze design and engineering, and make recommendations to improve efficiency of operations.

**HIT 222 Professional Practice III (0-0-6-2)**

This course provides supervised clinical experience in health care settings. Emphasis is placed on practical application of curriculum concepts to the health care setting. Upon completion, students should be able to apply health information theory to health care facility practices.

**HIT 225 Healthcare Informatics (3-2-0-4)**

This course covers data analysis to support decision making, patient care, and regulatory compliance. Topics include clinical terminology and vocabulary systems, data capture methodology, data presentation and reporting, and initiatives to improve the quality of patient care. Upon completion, students should be able to identify data elements and sets, analyze capture methodology in healthcare settings, analyze compliance issues and make improvement recommendations

**HIT 226 Principles of Disease (3-0-0-3)**

Prerequisite: BIO 169

This course covers disease etiology and organ system involvement, including physical signs and symptoms, prognoses, and common complications and their management. Topics include basic microbiology, basic pharmacology, and principles of disease. Upon completion, students should be able to relate disease processes to etiology, physical signs and symptoms, prognosis, and common complications and their management.

**HIT 227 Informatics Project Management (2-2-0-3)**

This course covers the required skills needed for implementing healthcare IT applications, with emphasis on electronic health records (EHR). Topics include leadership development skills, interdisciplinary collaboration, organizational change management, project management software, and the study of communication skills required across healthcare disciplines. Upon completion, students should be able to effectively collaborate and communicate with healthcare disciplines to implement informatics projects within the healthcare setting.

**HIT 280 Professional Issues (2-0-0-2)**

Prerequisite: HIT 211

This course provides a comprehensive discussion of topics common to the health information profession. Emphasis is placed on application of professional competencies, job search tools, and preparation for the certification examination. Upon completion, students should be able to demonstrate competence in entry-level domains and subdomains for health information technologies.

**HEALTH SCIENCES****HSC 110 Orientation to Health Careers (1-0-0-1)**

This course is a survey of health care professions. Topics include professional duties and responsibilities, working environments, and career choices. Upon completion, students should be able to demonstrate an understanding of the health care professions and be prepared to make informed career choices.

**HOTEL AND RESTAURANT MANAGEMENT****HRM 245 Human Resource Management-Hospitality (3-0-3)**

This course introduces a systematic approach to human resource management in the hospitality industry. Topics include training/development, staffing, selection, hiring, recruitment, evaluation, benefit administration, employee relations, labor regulations/laws, discipline, motivation, productivity, shift management, contract employees and organizational culture. Upon completion, students should be able to apply human resource management skills for the hospitality industry.

**HUMAN SERVICES****HSE 110 Introduction to Human Services (2-2-0-3)**

This course introduces the human services field, including the history, agencies, roles, and careers. Topics include personal/professional characteristics, diverse populations, community resources, disciplines in the field, systems, ethical standards, and major theoretical and treatment approaches. Upon completion, students should be able to identify the knowledge, skills, and roles of the human services worker.

**HSE 112 Group Process I (1-2-0-2)**

This course introduces interpersonal concepts and group dynamics. Emphasis is placed on self-awareness facilitated by experiential learning in small groups with analysis of personal experiences and the behavior of others. Upon completion, students should be able to show competence in identifying and explaining how people are influenced by their interactions in group settings.

**HSE 123 Interviewing Techniques (2-2-0-3)**

This course covers the purpose, structure, focus, and techniques employed in effective interviewing. Emphasis is placed on observing, attending, listening, responding, recording, and summarizing of personal histories with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to function in the helping relationship.

**HSE 125 Counseling (2-2-0-3)**

This course covers the major approaches to psychotherapy and counseling, including theory, characteristics, and techniques. Emphasis is placed on facilitation of self-exploration, problem solving, decision making, and personal growth. Upon completion, students should be able to understand various theories of counseling and demonstrate counseling techniques.

**HSE 155 Community Resources Management (2-0-0-2)**

This course focuses on the working relationships between human services agencies and the community. Emphasis is placed on identification and observation of community resources which contribute to the achievement of the human services mission. Upon completion, students should be able to demonstrate knowledge about mobilizing of community resources, marshaling public support, and determining appropriate sources of funding.



**HSE 210 Human Services Issues (2-0-0-2)**

This course covers current issues and trends in the field of human services. Emphasis is placed on contemporary topics with relevance to special issues in a multi-faceted field. Upon completion, students should be able to integrate the knowledge, skills, and experiences gained in classroom and clinical experiences with emerging trends in the field.

**HSE 212 Group Process II (1-2-0-2)**

Prerequisite: HSE 112

This course is a continuation of the study of interpersonal concepts and group dynamics. Emphasis is placed on self-awareness facilitated by experiential learning in small groups with analysis of personal experiences and the behavior of others. Upon completion, students should be able to demonstrate their ability to communicate with others and facilitate communications between others.

**HSE 220 Case Management (2-2-0-3)**

Prerequisite: HSE 110

This course covers the variety of tasks associated with professional case management. Topics include treatment planning, needs assessment, referral procedures, and follow-up and integration of services. Upon completion, students should be able to effectively manage the care of the whole person from initial contact through termination of services.

**HSE 225 Crisis Intervention (3-0-0-3)**

This course introduces the basic theories and principles of crisis intervention. Emphasis is placed on identifying and demonstrating appropriate and differential techniques for intervening in various crisis situations. Upon completion, students should be able to assess crisis situations and respond appropriately.

**HSE 227 Children & Adolescents in Crisis (3-0-0-3)**

This course covers the crises affecting children and adolescents in contemporary society. Emphasis is placed on abuse and neglect, suicide and murder, dysfunctional family living, poverty, and violence. Upon completion, students should be able to identify and discuss intervention strategies and available services for the major contemporary crises affecting children and adolescents.

**HSE 240 Issues in Client Services (3-0-0-3)**

This course introduces systems of professional standards, values, and issues in the helping professions. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics relative to multicultural counseling and research. Upon completion, students should be able to understand and discuss multiple ethical issues applicable to counseling and apply various decision-making models to current issues.

**HSE 242 Family Systems (3-0-0-3)**

Prerequisites: PSY 150 or SOC 210

This course introduces the concepts of family structure as a system and includes the impact of contemporary society on the family. Topics include systems theory, family structure, blended families, divorce, adoption, and the elderly. Upon completion, students should be able to demonstrate an understanding of families as a system and the impact of change on family structure.

**HSE 250 Financial Services (2-0-0-2)**

This course introduces those agencies that provide income maintenance casework services. Emphasis is placed on qualifying applicants for a variety of economic assistant programs offered by human services agencies. Upon completion, students should be able to make a factual and objective assessment of a client's economic situation to qualify them for economic assistance.

**HSE 255 Health Problems & Prevention (2-2-0-3)**

This course surveys a range of health problems and issues, including the development of prevention strategies. Topics include teen pregnancy, HIV/AIDS, tuberculosis, communicable diseases, professional burnout, substance abuse, and sexually transmitted diseases. Upon completion, students should be able to identify health issues and demonstrate prevention strategies.

**HUMANITIES****HUM 110 Technology and Society (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**HUM 115 Critical Thinking (3-0-3)**

Prerequisites: ENG 095 or RED 090 and ENG 090 or satisfactory test scores

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. This course has been approved to satisfy the Comprehensive Articulation Agreement for general education core requirement. This course may meet the SACS humanities requirement for AAS degree programs.

**HUM 120 Cultural Studies (3-0-3)**

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture.

**HUM 121 The Nature of America (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an interdisciplinary survey of the American cultural, social, and political experience. Emphasis is placed on the multicultural character of American society, distinctive qualities of various regions, and the American political system. Upon completion, students should be able to analyze significant cultural, social, and political aspects of American life. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**HUM 122 Southern Culture (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**HUM 130 Myth in Human Culture (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**HUM 150 American Women Studies (3-0-3)**

This course provides an inter-disciplinary study of the history, literature, and social roles of American women from Colonial times to the present. Emphasis is placed on women's roles as reflected in American language usage, education, law, the workplace, and mainstream culture. Upon completion, students should be able to identify and analyze the roles of women as reflected in various cultural forms.

**HUM 160 Introduction to Film (2-2-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**HUM 170 The Holocaust (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides a survey of the destruction of European Jewry by the Nazis during World War II. Topics include the anti-Semitic ideology, bureaucratic structures, and varying conditions of European occupation and domination under the Third Reich. Upon completion, students should be able to demonstrate an understanding of the historical, social, religious, political, and economic factors which cumulatively resulted in the Holocaust. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**HUM 230 Leadership Development (3-0-3)**

Prerequisite: ENG 111

This course explores the theories and techniques of leadership and group process. Emphasis is placed on leadership styles, theories of group dynamics, and the moral and ethical responsibilities of leadership. Upon completion, students should be able to identify and analyze a personal philosophy and style of leadership and integrate these concepts in various practical situations. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**INDUSTRIAL SCIENCE****ISC 121 Environmental Health & Safety (3-0-3)**

This course covers workplace environmental health and safety concepts. Emphasis is placed on managing the implementation and enforcement of environmental health and safety regulations and on preventing accidents, injuries, and illnesses. Upon completion, students should be able to demonstrate an understanding of basic concepts of environmental health and safety.

**LEGAL EDUCATION****LEX 110 Introduction to Paralegal Study (2-0-2)**

This course introduces the paralegal profession and the legal system, and an emphasis is placed on the role of professional and legal ethics. Topics include regulations, ethics, case analysis, legal reasoning, career opportunities, professional organizations, terminology and other related topics. Upon completion, the student should be able to explain the role of a paralegal and identify the skills, knowledge, and ethics required of paralegals.

**LEX 120 Legal Research/Writing I (2-2-3)**

This course introduces the techniques of legal research and writing. Emphasis is placed on locating, analyzing, applying, and updating sources of law; effective legal writing, including proper citation; and the use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.

**LEX 121 Legal Research/Writing II (2-2-3)**

Prerequisite: LEX 120

This course covers advanced topics in legal research and writing. Topics include more complex legal issues and assignments involving preparation of legal memos, briefs, and other documents and the advanced use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.

**LEX 130 Civil Injuries (3-0-3)**

This course covers traditional tort concepts and the evolving body of individual rights created by statute. Topics include intentional and non-intentional torts with emphasis on negligence, strict liability, civil rights, workplace and environmental liability, remedies, and damages. Upon completion, students should be able to recognize, explain, and evaluate elements of civil injuries and related defenses.

**LEX 140 Civil Litigation I (3-0-3)**

This course introduces the structure of the legal system and the rules governing civil litigation. Topics include jurisdiction, state and federal rules of civil procedure and evidence. Upon completion, students should be able to assist an attorney in the preparation of pleadings and motions.

**LEX 141 Civil Litigation II (2-2-3)**

Prerequisite: LEX 140

This course covers advanced topics in the civil litigation process. Topics include motions, discovery, and trial and appellate procedures. Upon completion, students should be able to assist an attorney in preparing and organizing documents for trial, settlement and post-trial practice.

**LEX 150 Commercial Law I (2-2-3)**

This course covers legally enforceable agreements, forms of organization, and selected portions of the Uniform Commercial Code. Topics include drafting and enforcement of contracts, leases, and related documents and selection and implementation of business organization forms, sales, and commercial papers. Upon completion, students should be able to apply the elements of a contract, prepare various business documents, and understand the role of commercial paper.

**LEX 160 Criminal Law & Procedure (2-2-3)**

This course introduces substantive criminal law and procedural rights of the accused. Topics include elements of state/federal crimes, defenses, constitutional issues, pre-trial and trial process, and other related topics. Upon completion, students should be able to explain elements of specific crimes and assist an attorney in preparing a criminal case.

**LEX 170 Administrative Law (2-0-2)**

This course covers the scope, authority, and regulatory operations of various federal, state, and local administrative agencies. Topics include social security, worker's compensation, unemployment, zoning, and other related topics. Upon completion, students should be able to research sources of administrative law, investigate, and assist in representation of clients before administrative agencies.

**LEX 180 Case Analysis & Reasoning (1-2-2)**

Corequisite: LEX 120

This course covers the techniques of reading and applying legal opinions and the skills of case analysis. Emphasis is placed on the components of opinions and on types of legal writing. Upon completion, students should be able to read, analyze, and brief opinions and prepare legal memoranda, briefs, and other legal documents.

**LEX 210 Real Property I (3-0-3)**

This course introduces the study of real property law. Topics include the distinction between real and personal property, various estates, mechanics of conveyance and encumbrance, recordation, special proceedings, and other related topics. Upon completion, students should be able to identify estates, forms of deeds, requirements for recording, and procedures to enforce rights to real property.

**LEX 211 Real Property II (1-4-3)**

Prerequisite: LEX 210

This course continues the study of real property law relating to title examination and preparation of closing documents. Topics include use of courthouse and other public records in title examination and preparation of documents required in real estate transactions and closings. Upon completion, students should be able to plot/draft a description, perform complete title examination, draft closing documents including title insurance forms, and prepare disbursement reconciliation.

**LEX 240 Family Law (3-0-3)**

This course covers laws governing domestic relations. Topics include marriage, separation, divorce, child custody, support, property division, adoption, domestic violence, and other related topics. Upon completion, students should be able to interview clients, gather information, and draft documents related to family law.

**LEX 250 Wills, Estates, & Trusts (2-2-3)**

This course covers various types of wills, trusts, probate, estate administration, and intestacy. Topics include types of wills and execution requirements, caveats and dissents, intestate succession, inventories and accountings, distribution and settlement, and other related topics. Upon completion, students should be able to draft simple wills, prepare estate forms, understand administration of estates including taxation, and explain terms regarding trusts.

**LEX 260 Bankruptcy & Collections (3-0-3)**

This course provides an overview of the laws of bankruptcy and the rights of creditors and debtors. Topics include bankruptcy procedures and estate management, attachment, claim and delivery, repossession, foreclosure, collection, garnishment, and post-judgment collection procedure. Upon completion, students should be able to prepare and file bankruptcy forms, collection letters, statutory liens, and collection of judgments.

**LEX 280 Ethics & Professionalism (2-0-2)**

This course reinforces legal ethics and the role of the paralegal in a professional work environment. Topics include a review of ethics, employment opportunities, and search techniques; paralegal certification; and other related topics. Upon completion, students should be able to understand the paralegal's role in the ethical practice of law.

**MATHEMATICS****MAT 050 Basic Math Skills (3-2-4)**

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing whole numbers, fractions, and decimals. Upon completion, students should be able to perform basic computations and solve relevant mathematical problems.

**MAT 060 Essential Mathematics (3-2-4)**

Prerequisite: MAT 050

This course is a comprehensive study of mathematical skills which should provide a strong mathematical foundation to pursue further study. Topics include principles and applications of decimals, fractions, percents, ratio and proportion, order of operations, geometry, measurement, and elements of algebra and statistics. Upon completion, students should be able to perform basic computations and solve relevant, multi-step mathematical problems using technology where appropriate.

**MAT 070 Introductory Algebra (3-2-4)**

Prerequisite: MAT 060

Corequisite: Take One: RED-080 or ENG-085

This course establishes a foundation in algebraic concepts and problem solving. Topics include signed numbers, exponents, order of operations, simplifying expressions, solving linear equations and inequalities, graphing, formulas, polynomials, factoring, and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

**MAT 080 Intermediate Algebra (3-2-4)**

Prerequisite: MAT 060 and MAT 070

Corequisite: Take One: RED-080 or ENG-085

This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; systems of equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

**MAT 110 Mathematical Measurement (2-2-3)**

Prerequisites: DMA 010, DMA 020, DMA 030, or MAT 060 & MAT 070, or higher

This course provides an activity-based approach to utilizing, interpreting, and communicating data in a variety of measurement systems. Topics include accuracy, precision, conversion, and estimation within metric, apothecary, and avoirdupois systems; ratio and proportion; measures of central tendency and dispersion; and charting of data. Upon completion, students should be able to apply proper techniques to gathering, recording, manipulating, analyzing, and communicating data.

**MAT 115 Mathematical Models (2-2-3)**

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, or MAT 060 & MAT 070, or higher

This course develops the ability to utilize mathematical skills and technology to solve problems at a level found in non-mathematics-intensive programs. Topics include applications to percent, ratio and proportion, formulas, statistics, function notation, linear functions, probability, sampling techniques, scatter plots, and modeling. Upon completion, students should be able to solve practical problems, reason and communicate with mathematics, and work confidently, collaboratively, and independently.

**MAT 121 Algebra/Trigonometry I (2-2-3)**

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, or MAT 060 & MAT 070, or higher

This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include simplification, evaluation, and solving of algebraic and radical functions; complex numbers; right triangle trigonometry; systems of equations; and the use of technology. Upon completion, students should be able to demonstrate an understanding of the use of mathematics and technology to solve problems and analyze and communicate results.

**MAT 122 Algebra/Trigonometry II (2-2-3)**

Prerequisite: MAT 121, MAT 161, MAT 171 or MAT 175

This course extends the concepts covered in MAT 121 to include additional topics in algebra, function analysis, and trigonometry. Topics include exponential and logarithmic functions, translation and scaling of functions, Sine Law, Cosine Law, vectors, and statistics. Upon completion, students should be able to demonstrate an understanding of the use of technology to solve problems and to analyze and communicate results.

**MAT 140 Survey of Mathematics (3-0-3)**

Prerequisites: RED 090, DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, or MAT 060 & MAT 070, or higher, or satisfactory test scores

This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics may include, but are not limited to, sets, logic, probability, statistics, matrices, mathematical systems, geometry, topology, mathematics of finance, and modeling. Upon completion, students should be able to understand a variety of mathematical applications, think logically, and be able to work collaboratively and independently. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**MAT 141 Mathematical Concepts I (3-0-3)**

Prerequisites: RED 090 and DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080; or RED 090 and MAT 080, MAT 121, MAT 161, MAT 171, or MAT 175; or satisfactory test scores

This course is the first of a two-course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on sets, logic, number bases, elementary number theory, introductory algebra, measurement including metrics, and problem solving. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**MAT 142 Mathematical Concepts II (3-0-3)**

Prerequisite: MAT 141

This course is the second of a two-course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on probability, statistics, functions, introductory geometry, and mathematics of finance. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts and utilize technology as a mathematical tool. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirements in natural sciences/mathematics.

**MAT 151 Statistics I (3-0-3)**

Prerequisites: RED 090 and MAT 140; or RED 090 and DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, or higher, or satisfactory test scores

Corequisite: MAT 151A

This course provides a project-based approach to the study of basic probability, descriptive and inferential statistics, and decision making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control, population parameter estimation, and hypothesis testing. Upon completion, students should be able to describe important characteristics of a set of data and draw inferences about a population from sample data. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (Quantitative Option).

**MAT 151A Statistics I Lab (0-2-1)**

Prerequisites: RED 090 and MAT 140; or RED 090 and DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, or higher, or satisfactory test scores

Corequisite: MAT 151

This course is a laboratory for MAT 151. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**MAT 161 College Algebra (3-0-3)**

Prerequisites: RED 090 and DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 080, or satisfactory test scores

This course provides an integrated technological approach to algebraic topics used in problem solving. Emphasis is placed on applications involving equations and inequalities; polynomial, rational, exponential and logarithmic functions; and graphing and data analysis/modeling. Upon completion, students should be able to choose an appropriate model to fit a data set and use the model for analysis and prediction. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics for the Associate in Arts Degree.

**MAT 161A College Algebra Lab (0-2-1)**

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 060, MAT 080, or satisfactory test scores

Corequisites: MAT 161

This course is a laboratory for MAT 161. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.



**MAT 162 College Trigonometry (3-0-3)**

Prerequisites: MAT 161 or satisfactory test scores

This course provides an integrated technological approach to trigonometric applications used in problem solving. Emphasis is placed on applications involving trigonometric ratios, right triangles, oblique triangles, trigonometric functions, graphing, vectors, and complex numbers. Upon completion, students should be able to apply the above principles of trigonometry to problem solving and communication. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics for the Associate in Arts Degree.

**MAT 162A College Trig Lab (0-2-1)**

Prerequisites: MAT 161

Corequisites: MAT 162

This course is a laboratory for MAT 162. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**MAT 165 Finite Mathematics (3-0-3)**

Prerequisites: MAT 161, MAT 171, or MAT 175

Corequisites: MAT 165A

This course provides topics used to formulate models and to solve and interpret solutions using an algorithmic approach. Topics include linear algebra, linear programming, simplex method, sets and counting, probability, mathematics of finance, and logic. Upon completion, students should be able to demonstrate both an understanding of the theoretical concepts of finite mathematics and the ability to solve related problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**MAT 165A Finite Math Lab (0-2-1)**

Prerequisites: MAT 161, MAT 171, or MAT 175

Corequisites: MAT 165

This course is a laboratory for MAT 165. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**MAT 171 Precalculus Algebra (3-0-3)**

Prerequisites: RED 090 and DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 080; or MAT 161, or satisfactory test scores

Corequisites: MAT 171A

This is the first of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on equations and inequalities, functions (linear, polynomial, rational), systems of equations and inequalities, and parametric equations. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and predictions. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**MAT 171A Precalculus Algebra Lab (0-2-1)**

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 060 and MAT 080, MAT 161 or satisfactory test scores

Corequisite: MAT 171

This course is a laboratory for MAT 171. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**MAT 172 Precalculus Trigonometry (3-0-3)**

Prerequisites: MAT 171 or satisfactory test scores

Corequisites: MAT 172A

This is the second of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on properties and applications of transcendental functions and their graphs, right and oblique triangle trigonometry, conic sections, vectors, and polar coordinates. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**MAT 172A Precalculus Trigonometry Lab (0-2-1)**

Prerequisites: MAT 171 or satisfactory test scores

Corequisite: MAT 172

This course is a laboratory for MAT 172. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**MAT 175 Precalculus (4-0-4)**

Prerequisite: MAT 162 or satisfactory test scores

Corequisites: MAT 175A

This course provides an intense study of the topics which are fundamental to the study of calculus. Emphasis is placed on functions and their graphs with special attention to polynomial, rational, exponential, logarithmic and trigonometric functions, and analytic trigonometry. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics

**MAT 175A Precalculus Lab (0-2-1)**

Prerequisite: MAT 162 or satisfactory test scores

Corequisite: MAT 175

This course is a laboratory for MAT 175. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**MAT 271 Calculus I (3-2-4)**

Prerequisites: MAT 172 or MAT 175, or satisfactory test scores

This course covers in depth the differential calculus portion of a three-course calculus sequence. Topics include limits, continuity, derivatives, and integrals of algebraic and transcendental functions of one variable, with applications. Upon completion, students should be able to apply differentiation and integration techniques to algebraic and transcendental functions. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**MAT 272 Calculus II (3-2-4)**

Prerequisite Take MAT-271

This course provides a rigorous treatment of integration and is the second calculus course in a three-course sequence. Topics include applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to use integration and approximation techniques to solve application problems.

**MAT 273 Calculus III (3-2-4)**

Prerequisite Take MAT-272

This course covers the calculus of several variables and is the third calculus course in a three-course sequence. Topics include functions of several variables, partial derivatives, multiple integrals, solid analytical geometry, vector-valued functions, and line and surface integrals. Upon completion, students should be able to solve problems involving vectors and functions of several variables.

**MAT 280 Linear Algebra (3-0-3)**

Prerequisite Take MAT-271

This course provides a study of linear algebra topics with emphasis on the development of both abstract concepts and applications. Topics include vectors, systems of equations, matrices, determinants, vector spaces, linear transformations in two or three dimensions, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate both an understanding of the theoretical concepts and appropriate use of linear algebra models to solve application problems.

**MEDICAL ASSISTING/MEDICAL RELATED****MED 110 Orientation to Medical Assisting (1-0-0-1)**

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.

**MED 114 Prof Interac in Health Care (1-0-0-1)**

This course is designed to identify various patient behaviors encountered in the medical setting. Emphasis is placed on stressors related to illness, cultural influences, death and dying, and needs specific to patients. Upon completion, students should be able to utilize appropriate methods of verbal and nonverbal communication with empathy and impartiality.

**MED 118 Medical Law and Ethics (2-0-0-2)**

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bioethical issues. Emphasis is placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional.

**MED 121 Medical Terminology I (3-0-0-3)**

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

**MED 122 Medical Terminology II (3-0-0-3)**

Prerequisites: MED 121

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

**MED 130 Administrative Office Procedures I (1-2-0-2)**

This course introduces medical office administrative procedures. Topics include appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment.

**MED 131 Administrative Office Procedures II (1-2-0-2)**

This course provides medical office procedures in both economic and management skills. Topics include physical plant maintenance, equipment and supplies, liability coverage, medical economics, and introductory insurance procedures. Upon completion, students should be able to manage the economics of the medical office and supervise personnel.

**MED 134 Medical Transcription (2-2-0-3)**

Prerequisite: MED 121

This course provides the basic knowledge, understanding, and skills required to complete medical reports and transcribe medical dictation. Emphasis is placed on correct punctuation, capitalization, and spelling. Upon completion, students should be able to demonstrate competence in medical transcription.

**MED 140 Exam Room Procedures I (3-4-0-5)**

This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures.

**MED 150 Laboratory Procedures I (3-4-0-5)**

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics.

**MED 182 CPR First Aid & Emergency I (1-2-0-2)**

This course provides the basic knowledge and skills necessary to perform basic CPR, first aid, and medical emergency care related to the clinical, home, office, and recreational setting. Emphasis is placed on triage, assessment, and proper management of emergency care. Upon completion, students should be able to demonstrate basic CPR, first aid, and medical emergency care.

Note: This course may prepare students to test for Wilderness Advanced First Aid certification.

**MED 232 Medical Insurance Coding (1-3-0-2)**

This course is designed to develop coding skills. Emphasis is placed on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement.

**MED 240 Exam Room Procedures II (3-4-0-5)**

Prerequisite: MED 140

This course is designed to expand and build upon skills presented in MED 140. Emphasis is placed on advanced exam room procedures. Upon completion, students should be able to demonstrate enhanced competence in selected exam room procedures.

**MED 250 Laboratory Procedures II (3-4-0-5)**

Prerequisite: MED 150

This course is designed to expand and build on skills presented in MED 150. Emphasis is placed on increasing proficiency in laboratory skills used in the medical setting. Upon completion, students should be able to demonstrate enhanced competence in selected medical laboratory procedures.

**MED 260 MED Clinical Practicum (0-0-15-5)**

This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional.

**MED 262 Clinical Perspectives (1-0-0-1)**

This course is designed to explore personal and occupational responsibilities of the practicing medical assistant. Emphasis is placed on problems encountered during externships and development of problem-solving skills. Upon completion, students should be able to demonstrate courteous and diplomatic behavior when solving problems in the medical facility.

**MED 264 Med Assisting Overview (2-0-0-2)**

This course provides an overview of the complete medical assisting curriculum. Emphasis is placed on all facets of medical assisting pertinent to administrative, laboratory, and clinical procedures performed in the medical environment. Upon completion, students should be able to demonstrate competence in the areas covered on the national certification examination for medical assistants.

**MED 270 Symptomatology (2-2-0-3)**

This course covers the study of disease symptoms and the appropriate actions taken by medical assistants in a medical facility in relation to these symptoms. Emphasis is placed on interviewing skills and appropriate triage, preparing patients for procedures, and screening test results. Upon completion, students should be able to recognize how certain symptoms relate to specific diseases, recognize emergency situations, and take appropriate actions.

**MED 272 Drug Therapy (3-0-0-3)**

This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.

**MED 276 Patient Education (1-2-0-2)**

This course is designed to provide communication skills, basic education principles, and knowledge of available community resources and to apply this knowledge to the clinical setting. Emphasis is placed on identifying appropriate community resources, developing patient education materials, and instructing written and oral communication skills. Upon completion, students should be able to instruct, communicate effectively, and act as a liaison between the patient and community agencies.

**MARKETING AND RETAILING****MKT 120 Principles of Marketing (3-0-3)**

This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making.

**MKT 123 Fundamentals of Selling (3-0-3)**

This course is designed to emphasize the necessity of selling skills in a modern business environment. Emphasis is placed on sales techniques involved in various types of selling situations. Upon completion, students should be able to demonstrate an understanding of the techniques covered.

**MKT 223 Customer Service (3-0-3)**

This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.

**MEDICAL LABORATORY TECHNOLOGY****MLT 110 Introduction to MLT (2-3-0-3)**

This course introduces all aspects of the medical laboratory profession. Topics include health care/laboratory organization, professional ethics, basic laboratory techniques, safety, quality assurance, and specimen collection. Upon completion, students should be able to demonstrate a basic understanding of laboratory operations and be able to perform basic laboratory skills. This course is the foundation for all of the MLT coursework and must be successfully completed as a pre- or co- requisite to the MLT courses.

Note: This course also covers basic computer skills as needed within the program.

**MLT 111 Urinalysis & Body Fluids (1-3-0-2)**

This course introduces the laboratory analysis of urine and body fluids. Topics include physical, chemical, and microscopic examination of the urine and body fluids. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting urinalysis and body fluid tests.

**MLT 116 Anatomy & Medical Terminology (5-0-0-5)**

This course provides a basic study of the structure and function of the human body and medical terminology relevant to medical laboratory technology. Emphasis is placed on the structure and function of cells, tissues, human organ systems, and related terminology. Upon completion, students should be able to demonstrate a basic understanding of fundamental anatomy and physiology principles and application of terminology.

**MLT 118 Medical Lab Chemistry (3-0-0-3)**

This course introduces the basic medical laboratory chemical principles. Emphasis is placed on selected topics from inorganic, organic, and biological chemistry. Upon completion, students should be able to demonstrate an understanding of the relationship between basic chemical principles and the medical laboratory function.

**MLT 120 Hematology/Hemostasis I (3-3-0-4)**

This course introduces the theory and technology used in analyzing blood cells and the study of hemostasis. Topics include hematology, hemostasis, and related laboratory testing. Upon completion, students should be able to demonstrate theoretical comprehension of hematology/hemostasis, perform diagnostic techniques, and correlate laboratory findings with disorders.

**MLT 125 Immunohematology I (4-3-0-5)**

This course introduces the immune system and response; basic concepts of antigens, antibodies, and their reactions; and applications in transfusion medicine and serodiagnostic testing. Emphasis is placed on immunological and blood banking techniques including concepts of cellular and humoral immunity and pretransfusion testing. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting routine immunological and blood bank procedures.

**MLT 130 Clinical Chemistry I (3-3-0-4)**

This course introduces the quantitative analysis of blood and body fluids and their variations in health and disease. Topics include clinical biochemistry, methodologies, instrumentation, and quality control. Upon completion, students should be able to demonstrate theoretical comprehension of clinical chemistry, perform diagnostic techniques, and correlate laboratory findings with disorders.

**MLT 140 Introduction to Microbiology (2-3-0-3)**

This course introduces basic techniques and safety procedures in clinical microbiology. Emphasis is placed on the morphology and identification of common pathogenic organisms, aseptic technique, staining techniques, and usage of common media. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting basic clinical microbiology procedures.

**MLT 215 Professional Issues (1-0-0-1)**

This course surveys professional issues in preparation for career entry. Emphasis is placed on work readiness and theoretical concepts in microbiology, immunohematology, hematology, and clinical chemistry. Upon completion, students should be able to demonstrate competence in career entry-level areas and be prepared for the national certification examination.

**MLT 220 Hematology/Hemostasis II (2-3-0-3)**

Prerequisite: MLT 120

This course covers the theories and techniques used in the advanced analysis of human blood cells and hemostasis. Emphasis is placed on the study of hematologic disorders, abnormal cell development and morphology, and related testing. Upon completion, students should be able to demonstrate a theoretical comprehension and application of abnormal hematology and normal and abnormal hemostasis.

**MLT 240 Special Clinical Microbiology (2-3-0-3)**

Prerequisite: MLT 140

This course is designed to introduce special techniques in clinical microbiology. Emphasis is placed on advanced areas in microbiology. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting specialized clinical microbiology procedures.

**MLT 253 MLT Practicum I (Phlebotomy Clinic) (0-0-9-3)**

Prerequisite: MLT 110

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

**MLT 263 MLT Practicum I (Hematology/Hemostasis Clinic) (0-0-9-3)**

Prerequisites: MLT 120 and MLT 220

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

**MLT 271 MLT Practicum III (Urinalysis/Serology Clinic) (0-0-3-1)**

Prerequisites: MLT 111 and MLT 125

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

**MLT 272 MLT Practicum III (Chemistry Clinic) (0-0-6-2)**

Prerequisites: MLT 118 and MLT 130

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

**MLT 273 MLT Practicum III (Immunoematology Clinic) (0-0-9-3)**

Prerequisite: MLT 125

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.

**MLT 274 MLT Practicum III (Microbiology Clinic) (0-0-12-4)**

Prerequisites: MLT 140 and MLT 240

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations.



**THERAPEUTIC MASSAGE****MTH 110 Fundamentals of Massage (6-9-3-10)**

This course introduces concepts basic to the role of the massage therapist in a variety of clinical settings. Emphasis is placed on beginning theory and techniques of body work as well as skill in therapeutic touch. Upon completion of the course, the student should be able to apply basic practical massage therapy skills.

**MTH 120 Therapeutic Massage Applications (6-9-3-10)**

Prerequisite: MTH 110

This course provides an expanded knowledge and skill base for the massage therapist in a variety of clinical settings.. Emphasis is placed on selected therapeutic approaches throughout the lifespan. Upon completion, students should be able to perform entry level therapeutic massage on various populations.

Note: This course also covers physical agents utilized with massage, introduces the student to the additional techniques of acupressure, Amma, Shiatsu, and Jin Shin Do and will focus on the business practices related to this industry.

**MTH 125 Ethics of Massage (2-0-0-2)**

This course is designed to explore issues related to the practice of massage therapy. Emphasis is placed on ethical, legal, professional, and political issues. Upon completion , students should be able to discuss issues relating to the practice of massage therapy, client/therapist relationships as well as ethical issues.

Note: This course also focuses on the North Carolina Laws, Rules and Regulations specific to the practice of massage and bodywork.

**MUSIC****MUS 110 Music Appreciation (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**NURSING ASSISTANT****NAS 101 Nursing Assistant I (3-4-3-6)**

This course introduces basic nursing skills required to provide personal care for patients, residents, or clients in a health care setting. Topics include communications, safety, patients' rights, personal care, vital signs, elimination, nutrition, emergencies, rehabilitation, and mental health. Upon completion, students should be able to demonstrate skills necessary to qualify as Nursing Assistant I with the North Carolina Nurse Aide I Registry.

**NAS 102 Nursing Assistant II (3-2-6-6)**

This course provides training in selected advanced nursing assistant procedures. Emphasis is placed on sterile techniques, respiratory procedures, catheterizations, wound and trach care, irrigations, and ostomy care. Upon completion, students should be able to demonstrate skills necessary to qualify as a Nursing Assistant II with the North Carolina Board of Nursing.

**NAS 103 Home Health Care (2-0-0-2)**

This course covers basic health issues that affect clients in the home setting. Emphasis is placed on home safety, recognizing significant changes in the client's condition, family dynamics, and use of home health care equipment. Upon completion, students should be able to identify care for clients at home.

**NAS 106 Geriatrics (2-0-3-3)**

This course is designed to cover health issues that affect the aging client. Emphasis is placed on social, physical, and psychological problems experienced by elderly people. Upon completion, students should be able to understand and provide care for the aging population.

**NAS 107 Medication Aide (0-2-0-1)**

This course will cover the six rights of medication administration for non-licensed personnel. Topics will include medication administration via the oral, topical and installation routes, medical asepsis, hand hygiene, terminology, and legal implications. Upon completion, students should be able to demonstrate skills necessary to qualify as a Medication Aide with the North Carolina Medication Aide Registry.

**NETWORKING TECHNOLOGY****NET 110 Networking Concepts (2-2-3)**

This course introduces students to the networking field. Topics include network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

**NET 113 Home Automation Systems (2-2-3)**

This course covers the design, installation, testing, troubleshooting, and customer service of a fully automated home. Emphasis is placed on a structured wiring system that integrates the home phone, TV, home theater, audio, video, computer network, lighting, security systems, and automation systems into a pre-wired, remote controlled system. Upon completion, students should be able to design, install, and maintain home automation systems.

**NET 125 Networking Basics (1-4-3)**

This course introduces the networking field. Emphasis is placed on network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

**NET 126 Routing Basics (1-4-3)**

Prerequisite: NET 125

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs.

**NET 175 Wireless Technology (2-2-3)**

Prerequisites: NET 110 or NET 125

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.

**NET 225 Routing and Switching I (1-4-3)**

Prerequisite: NET 126

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP.

**NET 226 Routing and Switching II (1-4-3)**

Prerequisite: NET 225

This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, and describe the Spanning Tree protocol.

**NET 289 Networking Project (1-4-3)**

Corequisite: NET 226

This course provides an opportunity to complete a significant networking project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete a project from the definition phase through implementation.

**NETWORKING OPERATING SYSTEMS****NOS 110 Operating System Concepts (2-3-3)**

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is placed on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.

**NOS 120 Linux/UNIX Single User (2-2-3)**

Prerequisite: NOS 110 or CET 211

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.

**NOS 130 Windows Single User (2-2-3)**

Prerequisite: NOS 110 or CET 211

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

**NOS 220 Linux/UNIX Administration I (2-2-3)**

Prerequisite: NOS 120

This course introduces the Linux file system, group administration, and system hardware controls. Topics include installation, creation and maintaining file systems, NIS client and DHCP client configuration, NFS, SMB/Samba, Configure X, Gnome, KDE, basic memory, processes, and security. Upon completion, students should be able to perform system administration tasks including installation, configuring and attaching a new Linux workstation to an existing network.

**NOS 230 Windows Administration I (2-2-3)**

Prerequisite: NOS 130

This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment.

**NOS 231 Windows Administration II (2-2-3)**

Prerequisite: NOS 230

This course covers implementing, managing, and maintaining a Windows Server network infrastructure. Topics include implementing, managing, and maintaining IP addressing, name resolution, network security, routing and remote access, and managing a network infrastructure. Upon completion, students should be able to manage and maintain a Windows Server environment.

**NURSING****NUR 111 Intro to Health Concepts (4-6-6-8)**

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 112 Health-Illness Concepts (3-0-6-5)**

Prerequisites: NUR 111

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 113 Family Health Concepts (3-0-6-5)**

Prerequisites: NUR 111

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 114 Holistic Health Concepts (3-0-6-5)**

Prerequisites: NUR 111

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 211 Health Care Concepts (3-0-6-5)**

Prerequisites: NUR 111

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 212 Health System Concepts (3-0-6-5)**

Prerequisites: NUR 111

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 213 Complex Health Concepts (4-3-15-10)**

Prerequisites: NUR 111

Corequisites: NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

**NUR 214 Nursing Transition Concepts (3-0-3-4)**

Prerequisites: Valid unrestricted North Carolina LPN certificate

This course is designed to introduce concepts within the three domains of the individual, healthcare, and nursing as the LPN transitions to the ADN role. Emphasis is placed on the concepts within each domain including evidenced-based practice, quality improvement, communication, safety, interdisciplinary team, clinical decision-making, informatics, assessment, caring and health-wellness-illness. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 221 LPN to ADN Concepts I (6-0-9-9)**

Prerequisites: NUR 214

This course is designed for the LPN to ADN student to explore the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of safety, perfusion inflammation, oxygenation, mood/affect, behavior, development, family, health-wellness-illness, sensory perception, stress/coping, cognition, self, violence, and professional behaviors. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

**NUR 223 LPN to ADN Concepts II (6-0-9-9)**

Prerequisites: NUR 221

This course is designed for the LPN to ADN student to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, thermoregulation, oxygenation, tissue integrity, infection, perfusion, mobility, reproduction, sexuality, health-wellness-illness, professional behaviors, accountability, advocacy, and collaboration. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry-level nursing care.

**NUTRITION****NUT 110 Nutrition (3-0-0-3)**

This course covers basic principles of nutrition and their relationship to human health. Topics include meeting nutritional needs of healthy people, menu modification based on special dietary needs, food habits, and contemporary problems associated with food selection. Upon completion, students should be able to apply basic nutritional concepts as they relate to health and well-being.

**OUTDOOR LEADERSHIP****ODL 110 Introduction to Outdoor Leadership (2-2-0-3)**

Prerequisites: ENG 090 and RED 090; ENG 095 or satisfactory test scores

This course is an introduction to the field of outdoor leadership, its theories, techniques and educational principles. Topics include the historical and philosophical foundations of leadership, the dynamics of group interaction and team building. Upon completion, students should be able to clearly articulate the evolution of the outdoor leader and build a personal outdoor leadership philosophy.

**ODL 115 Methods of Experiential Education (2-2-0-3)**

This course is designed to instruct the outdoor leader in the use of experiential educational tools to facilitate the wilderness experience. Emphasis is placed on classroom and lab techniques, including problem solving and communication skills, used in situations relevant to outdoor settings. Upon completion, students should be able to transfer the use of experiential educational skills to the outdoor experience.

**ODL 120 Challenge Course Facilitation (1-4-0-3)**

This course provides a focus on the approaches to challenge course technical facilitation. Emphasis is placed on the set-up, facilitation and rescue of participants on challenge course high events and climbing towers. Upon completion, students should be able to demonstrate correct risk management and safety techniques in facilitating a challenge course experience

**ODL 125 Wilderness First Responder (3-3-0-4)**

This course provides the individual with the skills necessary to handle medical emergencies in situations such as back country extended care and swift water rescue. Emphasis is placed on the safety and sound judgement in medical and life threatening emergencies through the use of lecture and hands-on simulations. Upon completion, students should be able to handle medical emergencies in the back country.

**ODL 130 Water-Based Activities I (1-6-0-3)**

This course introduces skills associated with all aspects of water activities, focusing on rafts, canoes, and kayaks in rivers, lakes and ocean environments. Emphasis is placed on skill acquisition and safety in all types of water environments and conditions. Upon completion of this course, the students should be proficient in basic boating skills and safety techniques.

**ODL 135 Land-Based Activities I (1-6-0-3)**

This course is designed to introduce skill development in land based activities including hiking, orienteering, backpacking, camping, etc. Emphasis is placed on skill acquisition, no trace impact, and rescue techniques in various environments and conditions. Upon completion of this course, the student should be proficient in land based technical skills.

**ODL 138 Field Experience I (1-9-0-4)**

This course is designed to be a broad based experience within the field of outdoor leadership. Emphasis is placed on employing the didactic and experiential skills the student has acquired in all previous course work. Upon completion of this course, the student should be able to demonstrate their ability to integrate academic preparation into the field setting.

**ODL 140 Intro to Wilderness Therapy (2-2-0-3)**

This Course provides an introduction to the theory and practice of Wilderness Therapy. Topics include the history, philosophy, ethics and risk management of Wilderness Therapy programs. Upon completion, students should be able to describe the process and the anticipated outcomes of Wilderness Therapy.

**ODL 210 Water-Based Activities II (1-6-0-3)**

Prerequisites: ODL 125 and ODL 130

This course is a continuation of ODL 130 and develops knowledge, techniques, approaches, and experiential methodology for teaching and leading safe water travel. Emphasis is placed on the students developing safe teaching and leading skills in all aspects of water travel using rafts, canoes and kayaks. Upon completion, the students should be able to lead and instruct groups in safe water activities.

**ODL 212 Land-Based Activities II (1-6-0-3)**

Prerequisites: ODL 125 and ODL 135

This course develops techniques, approaches, and experiential methodology for teaching and leadership skills in all aspects of land-based activities of orienteering, hiking, camping etc. Emphasis is placed on developing safe teaching and leadership skills in various environments and conditions. Upon completion, students should be able to lead and instruct groups in safe land based programs.

**ODL 215 Administration and Policy of Public Lands (3-0-0-3)**

This course is designed to introduce the student to agencies which manage public lands and the laws created to protect natural resources. Topics include the history of natural resource management, policies of the US government, and current agencies and laws governing our use or abuse of the environment. Upon completion, the students should be able to acknowledge the roles and policies associated with land management.

**ODL 220 Climbing (1-4-0-3)**

This course is designed to develop the knowledge, skills and teaching methodology for the leadership of safe rock climbing activities. Emphasis is placed on the students developing safe teaching and leading skills in all aspects of rock climbing. Upon completion, the students should be able to demonstrate sound judgement in leading safe rock climbing programs.

**ODL 228 Outdoor Leadership for Special Populations (2-2-0-3)**

This course provides the knowledge and skills necessary to work with special populations. Emphasis is placed on the special skills necessary to work with such populations as age specific groups, and mentally, emotionally and physically challenged individuals. Upon completion, the students should be able to identify the knowledge, judgement, safety and experiential methodology skills appropriate to special populations.

**ODL 238 Field Experience II (1-9-0-4)**

This course is designed as a culminating field experience for the advanced student. Emphasis is placed on applying the knowledge and leadership skills developed to specific outdoor activities in a supervised setting. Upon completion, the students should be able to demonstrate the knowledge, judgement, safety and methodology skills appropriate for an entry level position in outdoor leadership.

**ODL 244 Caving (1-3-0-2)**

This course provides an introduction to spelunking. Emphasis is placed on developing the technical skills, safety techniques, and leadership abilities associated with caving. Upon completion of this course, the students should be able to safely perform and lead a group in this activity.

**ODL 245 Wilderness Therapeutic Models (3-2-0-4)**

This course provides an overview of Wilderness therapeutic models. Topics include psychological and educational theories, treatment models and methodology utilized by Wilderness Therapy organizations. Upon completion, students should be able to understand the different approaches and techniques used in Wilderness Therapy to facilitate personal growth and change.

**ODL 248 Field Techniques in WT (2-6-0-4)**

This course is designed to introduce the student to common field techniques used by wilderness therapy providers. Emphasis is placed on developing systems and structures used by Wilderness therapy organizations while in a field setting to implement the treatment model of the organization. Upon completion, students should be able to understand the role of the field instructor in wilderness therapy and the common techniques used to structure naturally occurring challenges and consequences.

**ODL 250 Biking (1-3-0-2)**

This course provides hands-on experience in skill development and leadership training in all aspects of bicycling. Emphasis is placed on developing the technical skills, safety techniques, and leadership abilities associated with bicycling. Upon completion of this course, the students should be able to safely perform and lead a group in this activity.

**ODL 260 Challenge Course Management (1-4-0-3)**

Prerequisite: ODL 120

This course provides students with the additional skills for the effective management of challenge courses. Emphasis is placed on group management, facility inspection, and advanced rescue techniques. Upon completion, the students should be able to demonstrate the skills necessary to lead and maintain challenge course events and facilities.



**ODL 265 Raft Guide Training (1-2-0-2)**

This course provides a working knowledge of the responsibilities of a professional raft guide. Emphasis is placed on paddle skills, water hydrology, river rescue and trip leading techniques. Upon completion, students should be able to lead safe raft trips.

**ODL 267 Primitive Living Skills (1-4-0-3)**

This course introduces the student to the use of primitive living skills in outdoor environment. Topics include a primitive orientation to navigation, fire building, shelters, cooking and camping in the backcountry. Upon Completion, students should be able to travel and establish a campsite using primitive living skills.

**ODL 270 Swift Water Rescue (0-2-0-1)**

This course provides students with skills needed to perform rescues in a swift water environment. Emphasis is placed on river hydrology, rigging, swimming and rescue techniques focusing and intensive practice drills. Upon completion, students should be able to appropriately respond to a swift water emergency.

**ODL 284 Principles of Ecotourism (2-2-3)**

This course provides an overview of the key concepts of ecotourism and the relationship between nature and adventure tourism. Topics include the history, concepts, principles, marketing, planning and management of ecotourism activities which promote cultural and environmental awareness and local economic benefits. Upon completion, students should be able to demonstrate an understanding of the concepts, practical skills, and techniques used in developing appropriate ecotourism activities.

**ODL 286 Issues in Outdoor Leadership (2-2-3)**

This course is designed to provide a capstone experience in preparation for employment in the outdoor industry. Topics include an examination of professional issues, ethics, and current theoretical perspectives in outdoor leadership and preparation of an outdoor experience portfolio. Upon completion, students should be able to articulate the conceptual knowledge of ethics and professional issues of an emerging outdoor leader.

**ODL 288 Current Trends in ODL (1-4-0-3)**

This course is designed to expose the student to current and emerging trends in Outdoor Leadership. Emphasis is placed on evolving technologies and trends in the Outdoor Leadership Industry. Upon completion, students should be able to articulate the current state of the industry and the emerging trends and technologies employed in Outdoor Leadership.

**OFFICE ADMINISTRATION****OST 131 Keyboarding (1-2-2)**

This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system. This course is the entry level course for keyboarding.

**OST 136 Word Processing (2-2-3)**

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment. This course is also available through the Virtual Learning Community (VLC).

**OST 148 Medical Coding Billing & Insurance (3-0-3)**

This course introduces fundamentals of medical coding, billing, and insurance. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim. This course is also available through the Virtual Learning Community (VLC).

**OST 149 Medical Legal Issues (3-0-3)**

This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior. This course is also available through the Virtual Learning Community (VLC).

**OST 164 Text Editing Applications (3-0-3)**

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text. This course is also available through the Virtual Learning Community (VLC).

**OST 184 Records Management (2-2-3)**

This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system. This course is also available through the Virtual Learning Community (VLC).

**OST 236 Advanced Word/Information Processing (2-2-3)**

Prerequisites: OST 136

This course develops proficiency in the utilization of advanced word/information processing functions. Emphasis is placed on advanced word processing features. Upon completion, students should be able to produce a variety of complex business documents. This course is also available through the Virtual Learning Community (VLC).

**OST 243 Medical Office Simulation (2-2-3)**

Prerequisites: OST 148

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, storing and retrieving information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections.

**OST 289 Administrative Office Management (2-2-3)**

Prerequisites: OST 164 and either OST 134 or OST 136

This course is designed to be a capstone course for the office professional and provides a working knowledge of modern office procedures. Emphasis is placed on scheduling, telephone procedures, travel arrangements, event planning, office design, and ergonomics. Upon completion, students should be able to adapt in an office environment.

**PHLEBOTOMY****PBT 100 Phlebotomy Technology (5-2-0-6)**

Corequisite: PBT 101

This course provides instruction in the skills needed for the proper collection of blood and other specimens used for diagnostic testing. Emphasis is placed on ethics, legalities, medical terminology, safety and universal precautions, health care delivery systems, patient relations, anatomy and physiology, and specimen collection. Upon completion, students should be able to demonstrate competence in the theoretical comprehension of phlebotomy techniques. This is a certificate-level course.

**PBT 101 Phlebotomy Practicum (0-0-9-3)**

Corequisite: PBT 100

This course provides supervised experience in the performance of venipuncture and microcollection techniques in a clinical facility. Emphasis is placed on patient interaction and application of universal precautions, proper collection techniques, special procedures, specimen handling, and data management. Upon completion, students should be able to safely perform procedures necessary for specimen collections on patients in various health care settings. This is a certificate-level course.

**PHYSICAL EDUCATION****PED 110 Fit and Well for Life (1-2-2)**

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 111 Physical Fitness I (0-3-1)**

This course provides an individualized approach to physical fitness utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 117 Weight Training I (0-3-1)**

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 118 Weight Training II (0-3-1)**

Prerequisite: PED 117

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 120 Walking for Fitness (0-3-1)**

This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 121 Walk, Jog, Run (0-3-1)**

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 122 Yoga I (0-2-1)**

This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 123 Yoga II (0-2-1)**

Prerequisite: PED 122

This course introduces more detailed aspects of the discipline of yoga. Topics include breathing and physical postures, relaxation, and mental concentration. Upon completion, students should be able to demonstrate advanced procedures of yoga. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 125 Self-Defense-Beginning (0-2-1)**

This course is designed to aid students in developing rudimentary skills in self-defense. Emphasis is placed on stances, blocks, punches, and kicks as well as non-physical means of self-defense. Upon completion, students should be able to demonstrate basic self-defense techniques of a physical and non-physical nature. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 128 Golf-Beginning (0-2-1)**

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion, students should be able to perform the basic golf shots and demonstrate a knowledge of the rules and etiquette of golf. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 130 Tennis-Beginning (0-2-1)**

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 137 Badminton (0-2-1)**

This course covers the fundamentals of badminton. Emphasis is placed on the basics of serving, clears, drops, drives, smashes, and the rules and strategies of singles and doubles. Upon completion, students should be able to apply these skills in playing situations. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 142 Lifetime Sports (0-2-1)**

This course is designed to give an overview of a variety of sports activities. Emphasis is placed on the skills and rules necessary to participate in a variety of lifetime sports. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime sports activities. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 143 Volleyball-Beginning (0-2-1)**

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 145 Basketball-Beginning (0-2-1)**

This course covers the fundamentals of basketball. Emphasis is placed on skill development, knowledge of the rules, and basic game strategy. Upon completion, students should be able to participate in recreational basketball. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 162 Angling (0-2-1)**

This course introduces the sport of angling. Emphasis is placed on fishing with the use of artificial lures. Upon completion, students should be able to cast and retrieve using baitcaster and spinning reels and identify the various types of artificial lures. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 163 Kayaking-Basic (0-2-1)**

This course is designed to teach the basic skills of kayaking. Topics include forward and reverse strokes, sweeps, Eskimo roll, and self-rescue skills. Upon completion, students should be able to maneuver and demonstrate safe kayaking practices. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 169 Orienteering (0-2-1)**

This course introduces the various types of orienteering and proper orienteering techniques. Emphasis is placed on defining various types of orienteering and recognizing and drawing topographic map symbols. Upon completion, students should be able to draw topographic map symbols and negotiate a 3-5 km cross-country orienteering course in a specified time period. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 170 Backpacking (0-2-1)**

This course covers the proper techniques for establishing a campsite, navigating in the wilderness, and planning for an overnight trip. Topics include planning for meals, proper use of maps and compass, and packing and dressing for extended periods in the outdoors. Upon completion, students should be able to identify quality backpacking equipment, identify the principles of no-trace camping, and successfully complete a backpacking experience. This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.

**PED 171 Nature Hiking (0-2-1)**

This course provides instruction on how to equip and care for oneself on the trail. Topics include clothing, hygiene, trail ethics, and necessary equipment. Upon completion, students should be able to successfully participate in nature trail hikes. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 172 Outdoor Living (1-2-2)**

This course is designed to acquaint the beginning camper with outdoor skills. Topics include camping techniques such as cooking and preserving food, safety, and setting up camp. Upon completion, students should be able to set up camp sites in field experiences using proper procedures. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 174 Wilderness Pursuits (0-2-1)**

This course covers the skills necessary to prepare for and participate in a wilderness trip. Emphasis is placed on planning, preparing, and participating in a wilderness pack trip. Upon completion, students should be able to safely participate in overnight wilderness pack trips. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 186 Dancing for Fitness (0-2-1)**

This course is designed to develop movement and recreational dance skills, safety, fitness, coordination, and techniques used to teach various groups. Emphasis is placed on participation and practice with adapting dances for ages and ability levels. Upon completion, students should be able to demonstrate knowledge of fitness through social, folk, and square dance participation and instruction. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 210 Team Sports (0-3-1)**

This course introduces the fundamentals of popular American team sports. Emphasis is placed on rules, equipment, and motor skills used in various sports. Upon completion, students should be able to demonstrate knowledge of the sports covered. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PED 211 New Games (0-2-1)**

This course includes explanation, demonstration, and participation in games that provide an alternative to traditional sports. Emphasis is placed on playing for pleasure rather than for competitive purposes. Upon completion, students should be able to participate and lead others in participating in non-competitive games. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PHILOSOPHY****PHI 210 History of Philosophy (3-0-3)**

Prerequisite: ENG 111 and RED 090 satisfactory test scores

This course introduces fundamental philosophical issues through an historical perspective. Emphasis is placed on such figures as Plato, Aristotle, Lao-Tzu, Confucius, Augustine, Aquinas, Descartes, Locke, Kant, Wollstonecraft, Nietzsche, and Sartre. Upon completion, students should be able to identify and distinguish among the key positions of the philosophers studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**PHYSICS****PHY 110 Conceptual Physics (3-0-3)**

Prerequisite: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 060, MAT 070, RED 090 or satisfactory test scores

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**PHY 110A Conceptual Physics Lab (0-2-1)**

Corequisite: PHY 110, DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080, MAT 060, MAT 070

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**PHY 131 Physics-Mechanics (3-2-4)**

Prerequisites: MAT 121 or MAT 161

This algebra/trigonometry-based course introduces fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, vectors, motion, forces, Newton's laws of motion, work, energy, power, momentum, and properties of matter. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

**PHY 151 College Physics I (3-2-4)**

Prerequisites: MAT 161, MAT 171, or MAT 175

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**PHY 152 College Physics II (3-2-4)**

Prerequisites: PHY 151

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.

**PHY 251 General Physics I (3-3-0-4)**

Prerequisite: MAT 271

Corequisite: MAT 272

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

**PHY 252 General Physics II (3-3-0-4)**

Prerequisite: MAT-272 and PHY-251

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

**POLITICAL SCIENCE****POL 120 American Government (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course is a study of the origins, development, structure, and functions of American national government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy formation. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**PSYCHOLOGY****PSY 118 Interpersonal Psychology (3-0-3)**

This course introduces the basic principles of psychology as they relate to personal and professional development. Emphasis is placed on personality traits, communication/leadership styles, effective problem solving, and cultural diversity as they apply to personal and work environments. Upon completion, students should be able to demonstrate an understanding of these principles of psychology as they apply to personal and professional development.



**PSY 150 General Psychology (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**PSY 215 Positive Psychology (3-0-3)**

Prerequisites: PSY 150

This course is an overview of the scientific study of human strengths. Topics include resilience, optimism, vital engagement (flow), positive relationships, creativity, wisdom, happiness, empathy, emotional intelligence, and other relevant topics. Upon completion, students should be able to demonstrate an understanding of the psychological factors relevant to enhancing well being. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PSY 237 Social Psychology (3-0-3)**

Prerequisites: PSY 150 or SOC 210

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**PSY 241 Developmental Psychology (3-0-3)**

Prerequisite: PSY 150

This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**PSY 259 Human Sexuality (3-0-3)**

Prerequisite: PSY 150

This course provides the biological, psychological, and sociocultural aspects of human sexuality and related research. Topics include reproductive biology, sexual and psychosexual development, sexual orientation, contraception, sexually transmitted diseases, sexual disorders, theories of sexuality, and related issues. Upon completion, students should be able to demonstrate an overall knowledge and understanding of human sexuality. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**PSY 275 Health Psychology (3-0-3)**

Prerequisite: PSY 150

This course covers the biopsychosocial dynamics of stress and the maintenance of good health. Topics include enhancing health and well-being, stress management, lifestyle choices and attitudes, the mind-body relationship, nutrition, exercise, and fitness. Upon completion, students should be able to demonstrate an understanding of the psychological factors related to health and well-being. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**PSY 281 Abnormal Psychology (3-0-3)**

Prerequisite: PSY 150

This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**PHYSICAL THERAPY****PTA 110 Introduction to Physical Therapy (2-3-0-3)**

This course introduces the field of physical therapy including the history and standards of practice for the physical therapist assistant and basic treatment techniques. Emphasis is placed on ethical and legal considerations, universal precautions, vital signs, documentation, basic patient preparation and treatment skills, and architectural barrier screening. Upon completion, students should be able to explain the role of the physical therapist assistant and demonstrate competence in basic techniques of patient care.

**PTA 120 Functional Anatomy (1-6-0-3)**

Corequisite: PTA 140

This course provides an organized study of anatomy and kinesiology. Emphasis is placed on the integration of structure and function of the skeletal, articular, muscular, nervous, and circulatory systems to include gait analysis. Upon completion, students should be able to describe the components and demonstrate function of these systems as applied to physical therapy.

**PTA 130 Physical Therapy Procedure I (1-6-0-3)**

Corequisite: PTA 110

This course covers superficial thermal agents, massage, ultrasound, and documentation methods. Emphasis is placed on physiological effects, indications, contraindications, and skilled applications of heat, cold, ultrasound, massage, and documentation. Upon completion, students should be able to safely, correctly, and effectively apply these techniques and procedures.

**PTA 140 Therapeutic Exercise (2-6-0-4)**

Corequisite: PTA 120

This course covers muscle physiology, exercise concepts, testing, and applications to the spine and extremities. Topics include strength, endurance, flexibility, and exercise protocols and progressions. Upon completion, students should be able to demonstrate skill in applying therapeutic exercise principles for non-neurological conditions in a safe and appropriate manner.

**PTA 150 Physical Therapy Procedure II (1-6-0-3)**

Prerequisite: PTA 130

This course, a continuation of PTA 130, emphasizes the theory and practice of electrotherapy, ultraviolet, hydrotherapy, wound and burn care, and deep heating modalities. Topics include application of deep heating modalities, aquatic therapy, edema reduction, high and low frequency currents, and biofeedback. Upon completion, students should be able to apply these modalities and treatment techniques effectively and safely and demonstrate knowledge of physiological principles involved.

**PTA 160 Physical Therapy Procedure III (2-3-0-3)**

Prerequisite: PTA 150

This course introduces treatment and measurement techniques and discusses treatment programs for neuromusculoskeletal dysfunction and injury. Topics include soft tissue and joint dysfunction; assessment of girth, volume, length, sensation, pain, and muscle strength; and selected exercise programs. Upon completion, students should be able to measure strength and joint motion and identify methods to assess sensation, pain, volume, girth, length, and gait abnormalities.

**PTA 170 Pathophysiology (3-0-0-3)**

This course is a survey of basic pathology with emphasis on conditions most frequently observed and treated in physical therapy. Topics include etiology, pathology, manifestation, treatment, and prognosis. Upon completion, students should be able to explain repair processes, categorize diseases, define pathology, identify organ/body systems involved, and discuss treatment and prognosis.

**PTA 180 PTA Clinical Education Introduction (0-0-9-3)**

This course introduces the physical therapy clinic in planned learning experiences and practice under supervision. Emphasis is placed on reinforcement of learned skills in direct patient care and communication. Upon completion, students should be able to demonstrate satisfactory performance in learned patient care skills, communication activities, and professional behaviors.

**PTA 212 Health Care/Resources (2-0-0-2)**

This course provides an overview of various aspects of health care delivery systems and the interrelationships of health care team members. Topics include health agencies and their functions, health care team member roles, management, and other health care issues. Upon completion, students should be able to discuss the functions of health organizations and team members and aspects of health care affecting physical therapy delivery.

**PTA 222 Professional Interactions (2-0-0-2)**

This course is designed to assist in the development of effective interpersonal skills in the physical therapist assistant setting. Topics include reactions to disability, the grieving process, methods of communication, motivation, health promotion, disease prevention, and aging. Upon completion, students should be able to discuss and demonstrate methods for achieving effective interaction with patients, families, the public, and other health care providers.

**PTA 240 Physical Therapy Procedure IV (3-6-0-5)**

Prerequisite: PTA 160

This course covers normal development, adult and pediatric/CNS dysfunction, spinal cord injuries, amputee rehabilitation techniques, and cardiopulmonary rehabilitation. Topics include neurology review, selected rehabilitation techniques, ADL and functional training, prosthetic and orthotic training, and environmental access. Upon completion, students should be able to demonstrate safe and correct application of selected rehabilitation techniques for neurological dysfunction, cardiopulmonary conditions, and amputations.

**PTA 250 Advanced Massage for PTA (0-3-0-1)**

This course is a survey of advanced massage techniques. Topics include lymphatic drainage and selected soft tissue techniques. Upon completion, students should be able to demonstrate safe and correct application of selected advanced massage techniques.

**PTA 252 Geriatrics for the PTA (2-0-0-2)**

This course is designed to provide more in-depth knowledge of physical therapy care for the geriatric individual. Topics include health promotion, wellness programs, and medical problems specific to the elderly. Upon completion, students should be able to discuss and describe special problems and programs for the elderly.

**PTA 254 Pediatrics for the PTA (0-3-0-1)**

This course provides an in-depth study of pediatric dysfunction and rehabilitation techniques. Topics include severe and profound attention deficit disorder, sensory integration, and rehabilitation in the school setting. Upon completion, students should be able to discuss selected pediatric dysfunctions and demonstrate specialized rehabilitation techniques.

**PTA 260 Advanced PTA Clinical Education (0-0-30-10)**

Prerequisites: PTA 180 or PTA 182

This course provides full-time clinical affiliations for planned learning experiences and practice under supervision. Emphasis is placed on reinforcement of learned skills in direct patient care, communications, and professional behaviors. Upon completion, students should be able to demonstrate satisfactory performance as an entry-level physical therapist assistant and as a member of the physical therapy team.

**PTA 270 PTA Topics (1-0-0-1)**

This course covers the physical therapist assistant profession in preparation for the state licensure exam. Topics include developing time management skills and practicing for the competence examinations. Upon completion, students should be able to identify individual academic strengths and weaknesses and utilize this information to continue self-study for the licensure exam.

**PTA 280 PTA Issues I (1-0-0-1)**

This course consists of reports, discussions, and guest lectures on the latest physical therapy techniques, equipment, and health sciences specialties. Topics include reports on extra-departmental experiences, case studies, and literature reviews. Upon completion, students should be able to discuss specialized physical therapy equipment and/or related fields and display competent writing skills.

**PTA 282 PTA Issues II (0-3-0-1)**

This course introduces the concept of extremity joint mobilization techniques and encourages attainment of basic competence. Topics include joint mobilization grades and techniques for all peripheral joints and general understanding of basic skill competencies. Upon completion, students should be able to perform safe and effective mobilization techniques.

**RADIOGRAPHY****RAD 110 Radiography Introduction & Patient Care (2-3-0-3)**

Corequisites: RAD 111 and RAD 151

This course provides an overview of the radiography profession and student responsibilities. Emphasis is placed on basic principles of patient care, radiation protection, technical factors, and medical terminology. Upon completion, students should be able to demonstrate basic skills in these areas.

**RAD 111 RAD Procedures I (3-3-0-4)**

Corequisites: RAD 110 and RAD 151

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, spine, and pelvis. Upon completion, students should be able to demonstrate competence in these areas.

**RAD 112 RAD Procedures II (3-3-0-4)**

Prerequisites: RAD 110, RAD 111, and RAD 151

Corequisites: RAD 121 and RAD 161

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, bony thorax, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas.

**RAD 121 Radiographic Imaging I (2-3-0-3)**

Prerequisites: RAD 110, RAD 111, and RAD 151

This course provides the principles of conventional film-screen radiography. Emphasis is placed on the factors that impact density, contrast, recorded detail, and distortion. Upon completion, students should be able to demonstrate an understanding of conventional film-screen radiographic imaging.

**RAD 122 Radiographic Imaging II (1-3-0-2)**

Prerequisites: RAD 112, RAD 121, and RAD 161

Corequisites: RAD 131 and RAD 171

This course provides advanced principles of imaging including digital radiography. Emphasis is placed on the factors that impact brightness, contrast, recorded detail, and distortion. Upon completion, students should be able to demonstrate an understanding of advanced principles of imaging.

**RAD 131 Radiographic Physics I (1-3-0-2)**

This course introduces the principles of radiation characteristics and production. Emphasis is placed on imaging equipment. Upon completion, students should be able to demonstrate a basic understanding of radiation characteristics and production.

**RAD 151 RAD Clinical Education I (0-0-6-2)**

Corequisites: RAD 110 and RAD 111

This course introduces patient management and basic radiographic procedures in the clinical setting. Emphasis is placed on mastering positioning of the chest and extremities, manipulating equipment, and applying principles of ALARA. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 161 RAD Clinical Education II (0-0-15-5)**

Prerequisites: RAD 110, RAD 111, and RAD 151

Corequisites: RAD 112 and RAD 121

This course provides additional experience in patient management and in more complex radiographic procedures. Emphasis is placed on mastering positioning of the spine, pelvis, head and neck, and thorax and adapting procedures to meet patient variations. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 171 RAD Clinical Education III (0-0-12-4)**

Prerequisites: RAD 112, RAD 121, and RAD 161

Corequisites: RAD 122 and RAD 131

This course provides experience in patient management specific to fluoroscopic and advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and mastering positioning of gastrointestinal and urological studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 181 RAD Clinical Elective (0-0-3-1)**

This course provides advanced knowledge of clinical applications. Emphasis is placed on enhancing clinical skills. Upon completion, students should be able to successfully complete the clinical course objectives.

**RAD 211 RAD Procedures III (2-3-0-3)**

Prerequisites: RAD 122

Corequisites: RAD 231, RAD 241, and RAD 251

This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, sectional anatomy, and advanced imaging. Upon completion, students should be able to demonstrate an understanding of these areas.

**RAD 231 Radiographic Physics II (1-3-0-2)**

Prerequisites: RAD 171 or RAD 131

This course provides advanced principles of radiation characteristics and production including digital imaging and Computed Tomography (CT). Emphasis is placed on imaging equipment. Upon completion, students should be able to demonstrate an understanding of radiation characteristics and production.

**RAD 241 Radiobiology/Protection (2-0-0-2)**

Prerequisites: RAD 122, RAD 131, and RAD 171

Corequisites: RAD 211, RAD 231, and RAD 251

This course covers the principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices. Upon completion, students should be able to demonstrate an understanding of the effects and uses of radiation in diagnostic radiology.

**RAD 245 Image Analysis (1-3-0-2)**

Prerequisites: RAD 211, RAD 231, RAD 241 and RAD 251

Corequisites: RAD 261

This course provides an overview of image analysis and introduces methods of quality management. Topics include image evaluation, pathology, quality control, and quality assurance. Upon completion, students should be able to demonstrate a basic knowledge of image analysis and quality management.

**RAD 251 RAD Clinical Education IV (0-0-21-7)**

Prerequisites: RAD 122, RAD 131, and RAD 171

Corequisites: RAD 211, RAD 231, and RAD 241

This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and a further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 261 RAD Clinical Education V (0-0-21-7)**

Prerequisite: RAD 251

Corequisite: RAD 245

This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

**RAD 271 Radiography Capstone (0-3-0-1)**

Prerequisites: RAD 211, RAD 231, RAD 241, RAD 251

Corequisites: RAD 245, RAD 261

This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level radiographer.

**RESPIRATORY THERAPY****RCP 110 Introduction to Respiratory Care (3-3-0-4)**

This course introduces the respiratory care profession. Topics include the role of the respiratory care practitioner, medical gas administration, basic patient assessment, infection control, and medical terminology. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations.

**RCP 111 Therapeutics/Diagnostics (4-3-0-5)**

Prerequisite: RCP 110

This course is a continuation of RCP 110. Emphasis is placed on entry-level therapeutic and diagnostic procedures used in respiratory care. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations.

**RCP 112 Patient Management (3-3-0-4)**

Prerequisite: RCP 111

This course provides entry-level skills in adult/pediatric mechanical ventilation and respiratory care procedures in traditional and alternative settings. Emphasis is placed on therapeutic modalities and physiological effects of cardiopulmonary rehabilitation, home care, mechanical ventilation, and monitoring. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations.

**RCP 113 RCP Pharmacology (2-0-0-2)**

This course covers the drugs used in the treatment of cardiopulmonary diseases. Emphasis is placed on the uses, actions, indications, administration, and hazards of pharmacological agents. Upon completion, students should be able to demonstrate competence through written evaluations.

**RCP 114 C-P Anatomy & Physiology (3-0-0-3)**

This course provides a concentrated study of cardiopulmonary anatomy and physiology essential to the practice of respiratory care. Emphasis is placed on cardiovascular and pulmonary physiology, acid/base balance, and blood gas interpretation. Upon completion, students should be able to demonstrate competence in these concepts through written evaluation.

**RCP 115 C-P Pathophysiology (2-0-0-2)**

This course introduces the etiology, pathogenesis, and physiology of cardiopulmonary diseases and disorders. Emphasis is placed on clinical signs and symptoms along with diagnoses, complications, prognoses, and management. Upon completion, students should be able to demonstrate competence in these concepts through written evaluations.

**RCP 122 Special Practice Lab (0-2-0-1)**

This course provides additional laboratory learning opportunities in respiratory care. Emphasis is placed on therapeutic procedures and equipment management. Upon completion, students should be able to demonstrate competence in concepts and procedures through laboratory evaluations.

**RCP 123 Special Practice Lab (0-3-0-1)**

This course provides additional laboratory learning opportunities in respiratory care. Emphasis is placed on therapeutic procedures and equipment management. Upon completion, students should be able to demonstrate competence in concepts and procedures through laboratory evaluations.

**RCP 134 RCP Clinical Practice I (0-0-12-4)**

Corequisites: RCP 110

This course provides entry-level clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations.

**RCP 146 RCP Clinical Practice II (0-0-18-6)**

Prerequisites: RCP 110

Corequisites: RCP 111

This course provides entry-level clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations.

**RCP 158 RCP Clinical Practice III (0-0-24-8)**

Prerequisites: RCP 111

This course provides entry-level clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations.



**RCP 210 Critical Care Concepts (3-3-0-4)**

This course provides further refinement of acute patient care and underlying pathophysiology. Topics include a continuation in the study of mechanical ventilation, underlying pathophysiology, and introduction of critical care monitoring. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations.

**RCP 211 Advanced Monitoring/Procedures (3-3-0-4)**

Prerequisite: RCP 210

This course includes advanced information gathering and decision making for the respiratory care professional. Topics include advanced cardiac monitoring and special procedures. Upon completion, students should be able to evaluate, design, and recommend appropriate care plans through written and laboratory evaluations.

**RCP 212 Home Care/Rehabilitation (2-0-0-2)**

Prerequisites: RCP 111

This course provides an in-depth study of cardiopulmonary rehabilitation and alternatives to hospital care. Emphasis is placed on the procedures and technologies applied to these areas. Upon completion, students should be able to design appropriate respiratory care plans for the home and extended care environments.

**RCP 214 Neonatal/Ped's RC (1-3-0-2)**

Prerequisite: RCP 111

This course provides in-depth coverage of the concepts of neonatal and pediatric respiratory care. Emphasis is placed on neonatal and pediatric pathophysiology and on the special therapeutic needs of neonates and children. Upon completion, students should be able to demonstrate competence in these concepts through written and laboratory evaluations.

**RCP 222 Special Practice Lab (0-2-0-1)**

This course provides additional laboratory learning opportunities in respiratory care. Emphasis is placed on therapeutic procedures and equipment management. Upon completion, students should be able to demonstrate competence in concepts and procedures through laboratory evaluations.

**READING****RED 080 Introduction to College Reading (3-2-4)**

Prerequisites: ENG 075, or satisfactory test scores

This course introduces effective reading and inferential thinking skills in preparation for RED 090. Emphasis is placed on vocabulary, comprehension, and reading strategies. Upon completion, students should be able to determine main ideas and supporting details, recognize basic patterns of organization, draw conclusions, and understand vocabulary in context. This course does not satisfy the developmental reading prerequisite for ENG 111 or ENG 111A.

**RED 090 Improved College Reading (3-2-4)**

Prerequisites: RED 080 or ENG 085, or satisfactory test scores

This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing author's purpose, tone, and style; and drawing conclusions and responding to written material. Upon completion, students should be able to comprehend and analyze college-level reading material. This course satisfies the developmental reading prerequisite for ENG 111 or ENG 111A.

**RED 091 Fast Track Improved College Reading (1-0-1)**

Prerequisites: Take One: RED-080 or ENG-085

This course provides an intensive review of selected RED 090-level reading strategies. Topics include the following reading strategies at the RED 090 level: critical thinking, major question types, main idea, patterns of organization, vocabulary, and inference. Upon completion, students should be able to apply selected RED 090 reading strategies to various texts.

**RED 111 Critical Reading for College (3-0-3)**

This course is designed to enhance critical reading skills. Topics include vocabulary enrichment, reading flexibility, metacognitive strategies, and advanced comprehension skills, including analysis and evaluation. Upon completion, students should be able to demonstrate comprehension and analysis and respond effectively to material across disciplines.

**RELIGION****REL 111 Eastern Religions (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the major Asian religious traditions. Topics include Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**REL 112 Western Religions (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the major western religious traditions. Topics include Zoroastrianism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**REL 211 Introduction to the Old Testament (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**REL 212 Introduction to the New Testament (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**REAL ESTATE****RLS 112 Broker Prelicensing (5-0-5)**

This course provides basic instruction in real estate principles and practices. Topics include law, finance, brokerage, closing, valuation, management, taxation, mathematics, construction, land use, property insurance, and NC License Law and Commission Rules. Upon completion, students should be able to demonstrate basic knowledge and skills necessary for passing the state real estate license exam.

**RLS 113 Real Estate Mathematics (2-0-2)**

This course provides basic instruction in business mathematics applicable to real estate situations. Topics include area computations, percentage of profit/loss, closing statements, appreciation and depreciation, financial calculations and interest yields, property valuation, insurance, taxes, and commissions. Upon completion, students should be able to demonstrate proficiency in applied real estate mathematics.

**RLS 115 Real Estate Finance (2-0-2)**

Prerequisites: RLS 112

This course provides advanced instruction in financing real estate transactions and real property valuation. Topics include sources of mortgage funds, financing instruments, mortgage types, loan underwriting, essential mathematics, and property valuation. Upon completion, students should be able to demonstrate knowledge of real estate finance necessary to act as real estate brokers.

**RLS 116 Real Estate Law (2-0-2)**

Prerequisites: RLS 112 or current Real Estate license

This course provides advanced instruction in legal aspects of real estate brokerage. Topics include property ownership and interests, brokerage relationships, agency law, contracts, settlement statements, and NC License Law and Commission Rules. Upon completion, students should be able to demonstrate knowledge of laws relating to real estate brokerage necessary to act as real estate brokers.

**RLS 117 Real Estate Brokerage (4-0-4)**

Prerequisite: RLS 112

This course consists of advanced-level instruction on a variety of topics related to Real Estate law and brokerage practices. Topics include: Real Estate brokerage, finance and sales, RESPA, fair housing issues, selected N. C. Real Estate License Law and N. C. Real Estate Commission Rule issues. Upon completion students should be able to demonstrate a knowledge of real estate brokerage, law and finance.

**RLS 120 Real Estate Practice (2-0-2)**

Prerequisites: RLS 112

This course emphasized the knowledge and skills necessary for a successful real estate practice. Topics include land use controls, methods of measuring improvements, commercial real estate, property management, selling techniques, and other aspects of the real estate industry. Upon completion, students should be able to demonstrate knowledge of the actual operation of a real estate practice.

**RLS 121 Broker Relationships (2-0-2)**

Prerequisite: RLS 112

This course provides post-licensing instruction in broker relationships and responsibilities when working with residential sellers and buyers. Topics include agency relationships and duties, agency contracts and disclosure, and the practical aspects of working with residential buyers and sellers. Upon completion, students should be able to demonstrate knowledge and skills necessary to effectively work with residential buyers/sellers according to law and prevailing practices.

**RLS 122 Contracts and Closing (2-0-2)**

Prerequisite: RLS 112

This course provides post-licensing instruction in broker responsibilities relating to real estate sales contracts, contract procedures, the Real Estate Settlement Procedures Act and closings. Topics include contract law concepts, residential sales contract preparation and procedures, closing procedures and closing statement preparation. Upon completion, students should be able to handle sales contract negotiations, prepare residential sales contracts, assist sellers/buyers prepare for closing and verify closing statements.

**RLS 123 Real Estate Selected Topics (2-0-2)**

Prerequisite: RLS 112

This course provides post-licensing instruction in real estate on selected topics of special importance to licensees. Topics include commercial real estate brokerage, residential property management, land use controls, loan fraud, license law, fair housing, establishing a brokerage firm, and manufactured/modular homes. Upon completion, students should be able to demonstrate knowledge of commercial real estate brokerage, residential property management, and the other topics addressed in this course.

**SUBSTANCE ABUSE****SAB 110 Substance Abuse Overview (3-0-0-3)**

This course provides an overview of the core concepts in substance abuse and dependence. Topics include the history of drug use/abuse, effects on societal members, treatment of addiction, and preventive measures. Upon completion, students should be able to demonstrate knowledge of the etiology of drug abuse, addiction, prevention, and treatment.

**SAB 120 Intake and Assessment (3-0-0-3)**

This course develops processes for establishment of client rapport, elicitation of client information on which therapeutic activities are based, and stimulation of client introspection. Topics include diagnostic criteria, functions of counseling, nonverbal behavior, collaterals and significant others, dual diagnosis, client strengths and weakness, uncooperative clients, and crisis interventions. Upon completion, students should be able to establish communication with clients, recognize disorders, obtain information for counseling, and terminate the counseling process. This course is a unique concentration requirement of the Substance Abuse concentration in the Human Services Technology program.

**SAB 125 SAB Case Management (2-2-0-3)**

Prerequisite: SAB 120

This course provides case management activities, including record keeping, recovery issues, community resources, and continuum of care. Emphasis is placed on establishing a systematic approach to monitor the treatment plan and maintain quality of life. Upon completion, students should be able to assist clients in the continuum of care as an ongoing recovery process and develop agency networking. This course is a unique concentration requirement of the Substance Abuse concentration in the Human Services Technology program.

**SAB 135 Addictive Process (3-0-0-3)**

This course explores the physical, emotional, psychological, and cultural aspects of the addictive process. Emphasis is placed on addictions to food, sex, alcohol, drugs, work, gambling, and relationships. Upon completion, students should be able to identify the effects, prevention strategies, and treatment methods associated with addictive disorders.

**SAB 210 Substance Abuse Counseling (2-2-0-3)**

This course provides theory and skills acquisition by utilizing intervention strategies designed to obtain therapeutic information, support recovery, and prevent relapse. Topics include counseling individuals and dysfunctional families, screening instruments, counseling techniques and approaches, recovery and relapse, and special populations. Upon completion, students should be able to discuss issues critical to recovery, identify intervention models, and initiate a procedure culminating in cognitive/behavioral change.

**SAB 220 Group Techniques/Therapy (2-2-0-3)**

Prerequisite: HSE 112

This course provides a practical guide to diverse methods of group therapy models used in the specific treatment of substance abuse and addiction. Emphasis is placed on the theory and practice of group therapy models specifically designed to treat the cognitive distortions of addiction and substance abuse. Upon completion, students should be able to skillfully practice the group dynamics and techniques formulated for substance abuse and addiction.

**SAB 240 SAB Issues in Client Services (3-0-0-3)**

This course introduces systems of professional standards, values, and issues in substance abuse counseling. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics relative to multicultural counseling and research. Upon completion, students should be able to understand and discuss multiple ethical issues applicable to counseling and apply various decision-making models to current issues. This course is a unique concentration requirement of the Substance Abuse concentration in the Human Services Technology program.

**INFORMATION SYSTEMS SECURITY****SEC 110 Security Concepts (3-0-3)**

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy.

**SEC 170 SOHO Security (2-2-3)**

Prerequisites: SEC-110

This course introduces security principles and topics related to the small office/home office (SOHO) networking environment. Topics include network topologies, network protocols, security issues, and best practices for SOHO environments. Upon completion, students should be able to design, setup, secure, and manage a small office/home office network.

**SOCIOLOGY****SOC 210 Introduction to Sociology (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**SOC 213 Sociology of the Family (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**SOC 220 Social Problems (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**SOC 225 Social Diversity (3-0-0-3)**

This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.

**MEDICAL SONOGRAPHY****SON 110 Introduction to Sonography (1-3-3-3)**

This course provides an introduction to medical sonography. Topics include applications, sonographic terminology, history, patient care, ethics, and basic skills. Upon completion, students should be able to define professionalism and sonographic applications and perform basic patient care skills and preliminary scanning techniques.

**SON 111 Sonographic Physics (3-3-0-4)**

Prerequisite: SON 110

This course introduces ultrasound physical principles, bioeffects, and sonographic instrumentation. Topics include sound wave mechanics, transducers, sonographic equipment, Doppler physics, bioeffects, and safety. Upon completion, students should be able to demonstrate knowledge of sound wave mechanics, transducers, sonography equipment, the Doppler effect, bioeffects, and safety.

**SON 120 SON Clinical Education I (0-0-15-5)**

Prerequisite: SON 110

This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**SON 121 SON Clinical Education II (0-0-15-5)**

Prerequisite: SON 120

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**SON 130 Abdominal Sonography I (2-3-0-3)**

This course introduces abdominal and small parts sonography. Emphasis is placed on the sonographic anatomy of the abdomen and small parts with correlated laboratory exercises. Upon completion, students should be able to recognize and acquire basic abdominal and small parts images.

**SON 131 Abdominal Sonography II (1-3-0-2)**

Prerequisite: SON 130

This course covers abdominal and small parts pathology recognizable on sonograms. Emphasis is placed on abnormal sonograms of the abdomen and small parts with correlated sonographic cases. Upon completion, students should be able to recognize abnormal pathological processes in the abdomen and on small parts sonographic examinations.

**SON 140 Gynecological Sonography (2-0-0-2)**

Prerequisite: SON 110

This course is designed to relate gynecological anatomy and pathology to sonography. Emphasis is placed on gynecological relational anatomy, endovaginal anatomy, and gynecological pathology. Upon completion, students should be able to recognize normal and abnormal gynecological sonograms.

**SON 220 SON Clinical Education III (0-0-24-8)**

Prerequisite: SON 121

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**SON 221 SON Clinical Education IV (0-0-24-8)**

Prerequisite: SON 220

This course provides continued active participation off campus in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

**SON 222 Selected SON Clinical Education (0-0-6-2)**

This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating selected sonographic examinations. Upon completion, students should be able to image, process, and evaluate selected sonographic examinations.

**SON 225 Case Studies (0-3-0-1)**

Prerequisite: SON 110

This course offers the opportunity to present interesting cases found during clinical education. Emphasis is placed on presentation methods which integrate patient history, laboratory results, and sonographic findings with reference to current literature. Upon completion, students should be able to correlate information necessary for complete presentation of case studies.

**SON 241 Obstetrical Sonography I (2-0-0-2)**

Prerequisite: SON 110

This course covers normal obstetrical sonography techniques, the normal fetal environment, and abnormal first trimester pregnancy states. Topics include gestational dating, fetal anatomy, uterine environment, and first trimester complications. Upon completion, students should be able to produce gestational sonograms which document age, evaluate the uterine environment, and recognize first trimester complications.

**SON 242 Obstetrical Sonography II (2-0-0-2)**

Prerequisite: SON 241

This course covers second and third trimester obstetrical complications and fetal anomalies. Topics include abnormal fetal anatomy and physiology and complications in the uterine environment. Upon completion, students should be able to identify fetal anomalies, fetal distress states, and uterine pathologies.

**SON 250 Vascular Sonography (1-3-0-2)**

Prerequisite: SON 111

This course provides an in-depth study of the anatomy and pathology of the vascular system. Topics include peripheral arterial, peripheral venous, and cerebrovascular disease testing. Upon completion, students should be able to identify normal vascular anatomy and recognize pathology of the vascular system.

**SON 289 Sonographic Topics (2-0-0-2)**

Prerequisite: SON 220

Corequisites: SON 221

This course provides an overview of sonographic topics in preparation for certification examinations. Emphasis is placed on registry preparation. Upon completion, students should be able to demonstrate a comprehensive knowledge of sonography and be prepared for the registry examinations.

**SPANISH****SPA 111 Elementary Spanish I (3-0-3)**

Prerequisite: RED 090 or satisfactory test scores

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

Note: Elementary foreign language courses are secondary humanities courses; they will not count as the sole humanities selection in an AAS degree program.

**SPA 112 Elementary Spanish II (3-0-3)**

Prerequisite: SPA 111

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

Note: Elementary foreign language courses are secondary humanities courses; they will not count as the sole humanities selection in an AAS degree program.



**SPA 181 Spanish Lab I (0-2-1)**

Prerequisite: RED 090 or satisfactory test scores

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**SPA 182 Spanish Lab II (0-2-1)**

Prerequisite: SPA 181

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.

**SPA 211 Intermediate Spanish I (3-0-3)**

Prerequisite: SPA 112

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**SPA 212 Intermediate Spanish II (3-0-3)**

Prerequisite: SPA 211

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

**SURVEYING****SRV 110 Surveying I (2-6-4)**

Prerequisites: EGR 115 and MAT 121, MAT 161, MAT 171 or MAT 175

This course introduces the theory and practice of plane surveying. Topics include measuring distances and angles, differential and profile leveling, compass applications, topography, and mapping. Upon completion, students should be able to use/care for surveying instruments, demonstrate field note techniques, and apply the theory and practice of plane surveying.

**SRV 111 Surveying II (2-6-4)**

Prerequisite: SRV 110

This course introduces route surveying and roadway planning and layout. Topics include simple, compound, reverse, spiral, and vertical curves; geometric design and layout; planning of cross-section and grade line; drainage; earthwork calculations; and mass diagrams. Upon completion, students should be able to calculate and lay out highway curves; prepare roadway plans, profiles, and sections; and perform slope staking.

**SRV 210 Surveying III (2-6-4)**

Prerequisite: SRV 110

This course introduces boundary surveying, land partitioning, and calculations of areas. Topics include advanced traverses and adjustments, preparation of survey documents, and other related topics. Upon completion, students should be able to research, survey, and map a boundary.

**SRV 220 Surveying Law (2-2-3)**

Prerequisite: SRV 110

This course introduces the law as related to the practice of surveying. Topics include surveyors' responsibilities, deed descriptions, title searches, eminent domain, easements, weight of evidence, riparian rights, and other related topics. Upon completion, students should be able to identify and apply the basic legal aspects associated with the practice of land surveying.

**SRV 230 Subdivision Planning (1-6-3)**

Prerequisites: SRV 111, SRV 210, and CIV 211

This course covers the planning aspects of residential subdivisions from analysis of owner and municipal requirements to plat layout and design. Topics include municipal codes, lot sizing, roads, incidental drainage, esthetic considerations, and other related topics. Upon completion, students should be able to prepare a set of subdivision plans.

**SRV 240 Topographic/Site Surveying (2-6-4)**

Prerequisite: SRV 110

This course covers topographic, site, and construction surveying. Topics include topographic mapping, earthwork, site planning, construction staking, and other related topics. Upon completion, students should be able to prepare topographic maps and site plans and locate and stake out construction projects.

**SRV 250 Advanced Surveying (2-6-4)**

Prerequisite: SRV 111

This course covers advanced topics in surveying. Topics include photogrammetry, astronomical observations, coordinate systems, error theory, GPS, GIS, Public Land System, and other related topics. Upon completion, students should be able to apply advanced techniques to the solution of complex surveying problems.

**SRV 260 Field & Office Practices (1-3-2)**

Prerequisites: Completion of three semesters of the Surveying Technology program

This course covers surveying project management, estimating, and responsibilities of surveying personnel. Topics include record-keeping, starting and operating a surveying business, contracts, regulations, taxes, personnel management, and professional ethics. Upon completion, students should be able to understand the requirements of operating a professional land surveying business.

**SUSTAINABILITY TECHNOLOGIES****SST 210 Issues in Sustainability (3-0-3)**

Prerequisites: SST 110

This course introduces the long-term impacts and difficulties of applying sustainability concepts in an organization, business, or society. Topics include the application of sustainable technologies and the analysis of affordability, efficiencies, recycling, and small and large-scale design. Upon completion, students should be able to recognize the possible limitations of sustainable technologies and be prepared to reconcile such conflicts.

**WEB TECHNOLOGIES****WEB 110 Internet/Web Fundamentals (2-2-3)**

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded website created with mark-up language, and effectively use and understand the function of search engines.

**WEB 111 Introduction to Web Graphics (2-2-3)**

This course introduces the creation of web graphics, and addressing problems peculiar to WWW display using appropriate software. Topics include web graphics file types, optimization, RGB color, web typography, elementary special effects, transparency, animation, slicing, basic photo manipulation, and other related topics. Upon completion, students should be able to create graphics, such as animated banners, buttons, backgrounds, logos, and manipulate photographic images for Web delivery.

**WEB 115 Web Markup & Scripting (2-2-3)**

This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, stylesheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards.

**WEB 120 Introduction to Internet Multimedia (2-2-3)**

This is the first of two courses covering the creation of Internet Multimedia. Topics include Internet multimedia file types, file type conversion, acquisition of digital audio/video, streaming audio/video and graphics animation plug-in programs and other related topics. Upon completion, students should be able to create Internet multimedia presentations utilizing a variety of methods and applications.

**WEB 140 Web Development Tools (2-2-3)**

This course provides an introduction to web development software suites. Topics include the creation of web sites and applets using web development software. Upon completion, students should be able to create entire web sites and supporting applets.

**WEB 151 Mobile Application Development (2-2-0-3)**

This course introduces students to programming technologies, design and development related to mobile applications. Topics include accessing device capabilities, industry standards, operating systems, and programming for mobile applications using an OS Software Development Kit (SDK). Upon completion, students should be able to create basic applications for mobile devices.

**WEB 180 Active Server Pages (2-2-3)**

Prerequisite: CIS 115

This course introduces active server programming. Topics include HTML forms processing and other issues related to developing active web applications. Upon completion, students should be able to create and maintain a dynamic website.

**WEB 182 PHP Programming (2-2-3)**

Prerequisite: CIS 115

This course introduces students to the server-side, HTML-embedded scripting language PHP. Emphasis is placed on programming techniques required to create dynamic web pages using PHP scripting language features. Upon completion, students should be able to design, code, test, debug, and create a dynamic web site using the PHP scripting language.

**WEB 210 Web Design (2-2-3)**

This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web sites.

**WEB 225 Content Management Systems (2-2-0-3)**

Prerequisite: WEB 110

This course introduces students to Content Management Systems (CMS) designed for the publication of Web content to Web sites. Topics include individual user accounts, administration menus, RSS-feeds, customizable layout, flexible account privileges, logging, blogging systems, creating online forums, and modules. Upon completion, students should be able to register and maintain individual user accounts and create a business website and/or an interactive community website.

**WEB 230 Implementing Web Servers (2-2-3)**

Prerequisites: NET 110 or NET 125

This course covers website and web server architecture. Topics include installation, configuration, administration, and security of web servers, services and sites. Upon completion, students should be able to effectively manage the web services deployment lifecycle according to industry standards.

**WEB 250 Database Driven Websites (2-2-3)**

Prerequisites: CIS 115 and DBA 110

This course introduces dynamic (database-driven) website development. Topics include the use of basic database CRUD statements (create, read, update and delete) incorporated into web applications, as well as in software architecture principles. Upon completion, students should be able to design and develop database driven web applications according to industry standards.

**WEB 251 Mobile Application Development II (2-2-0-3)**

Prerequisite: WEB 151

This course covers advanced applications and custom programming to develop applications for mobile devices. Topics include device capabilities, OS specific Software Development Kits (SDK), scripting for functionality and designing interactivity. Upon completion, students should be able to demonstrate effective programming techniques to develop advanced mobile applications.

**WEB 285 Emerging Web Technologies (2-2-0-3)**

This course will explore, discuss, and research emerging technologies in the web arena. Emphasis is placed on exposure to up-and-coming technologies relating to the web, providing hands-on experience, and discussion of practical implications of these emerging fields. Upon completion, students should be able to articulate issues relating to these technologies.

**WEB 289 Internet Technologies Project (1-4-3)**

Prerequisites: WEB 230 and WEB 250

This course provides an opportunity to complete a significant Web technologies project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete an Internet project from the definition phase through implementation.

**WELDING****WLD 110 Cutting Processes (1-3-2)**

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.

**WLD 111 Oxy-Fuel Welding (1-3-2)**

This course introduces the oxy-fuel welding process. Topics include safety, proper equipment setup, and operation of oxy-fuel welding equipment with emphasis on bead application, profile, and discontinuities. Upon completion, students should be able to oxy-fuel weld fillets and grooves on plate and pipe in various positions.

**WLD 115 SMAW (Stick) Plate (2-9-5)**

Prerequisite: WLD 110 and WLD 111

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

**WLD 121 GMAW (MIG) FCAW/Plate (2-6-4)**

Prerequisite: WLD 115

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

**WLD 131 GTAW (TIG) Plate (2-6-4)**

Prerequisite: WLD 121

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.