

2017 - 2018

CATALOG



 **Southwestern**
COMMUNITY COLLEGE
A Nationally Ranked Top 10 College



A Nationally Ranked Top Ten College

447 College Drive • Sylva, N.C. 28779
www.southwesterncc.edu
828.339.4000 • 800.447.4091

Southwestern Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees, diplomas, and certificates. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Ga. 30033-4097 or call 404.679.4500 or see www.sacscoc.org for questions about the accreditation of Southwestern Community College. Inquiries regarding programs and services of Southwestern Community College should be directed to the College; the Commission on Colleges should be contacted only for questions relating to the College's accreditation.

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
Printed April 2017.
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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. This 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, Swain counties and the Qualla Boundary. 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 more than 90 credential options in more than 45 programs of study 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.

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 and the Qualla Boundary. 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 Career 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 a citizen of this great region and state, you are a leader of tomorrow. You may be a leader 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 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.

A handwritten signature in black ink, appearing to read "Don Bumas". The signature is fluid and cursive, with a long, sweeping line starting from the top left and ending at the bottom right.

President

2017 FALL SEMESTER

Fall Kick-Off.....	Tuesday, August 8
Faculty and Staff Semester Prep Day.....	Wednesday, August 9
Orientation/ Registration.....	Thursday, August 10
Final Registration.....	Friday, August 11
Classes Begin, Full and First Sessions.....	Monday, August 14
Schedule Adjustment – First Session.....	Monday & Tuesday, August 14 - 15
Schedule Adjustment – Full Session.....	Monday– Friday, August 14 - 18
Labor Day Holiday – College Closed.....	Monday, September 4
Professional Development Day.....	Friday, September 15
Citizenship/Constitution Day.....	Monday, September 18
Last Day to Withdraw, First Session.....	Tuesday, September 19
End of First Session Classes.....	Monday, October 9
Second Session Classes Begin.....	Tuesday, October 10
Schedule Adjustment – Second Session.....	Tuesday & Wednesday, October 10-11
Fall Break – No Classes.....	Monday – Sunday, October 16 – 22
Commencement Applications Due.....	Friday, October 27
Last Day to Withdraw, Full Session.....	Tuesday, October 31
Advising Day/Registration Begins for Spring 2018/No classes.....	Tuesday, November 7
Last day to Withdraw, Second Session & Last Day for Faculty-Initiated Withdrawal.....	Tuesday, November 21
Thanksgiving Break – No Classes.....	Wednesday, November 22
Thanksgiving Holiday – College Closed... Thursday – Sunday, November 23 – November 26	
Fall Semester Ends, Full and Second Sessions (last day of classes)/ Commencement.....	Friday, December 15
Grades Due.....	Monday, December 18
Holiday Break - College Closed.....	Wednesday, December 20 – Monday, January 1

2018 SPRING SEMESTER

College Reopens.....	Tuesday, January 2
Faculty and Staff Semester Prep Day.....	Wednesday, January 3
Orientation/ Registration Day.....	Thursday, January 4
Final Registration.....	Friday, January 5
Classes Begin, Full and First Sessions.....	Monday, January 8
Schedule Adjustment – First Session.....	Monday & Tuesday, January 8 - 9
Schedule Adjustment – Full Session.....	Monday-Friday, January 8 - 12
Martin Luther King, Jr. Day – College Closed.....	Monday, January 15
Professional Development Day.....	Friday, February 9
Last Day to Withdraw, First Session.....	Tuesday, February 13
End of First Session Classes.....	Friday, March 2
Spring Break – No Classes.....	Monday – Sunday, March 5 – 11
Second Session Classes Begin.....	Monday, March 12
Schedule Adjustment – Second Session.....	Monday & Tuesday, March 12 – 13
Last Day to Withdraw, Full Session/Advising Day - No classes.....	Tuesday, March 27
Commencement Applications Due.....	Tuesday, March 27
Easter Break – No Classes.....	Wednesday & Thursday March 28 -29
Easter Break – College Closed.....	Friday – Sunday, March 30 – April 1
Registration Begins for Summer & Fall 2018.....	Tuesday, April 10
Last Day to Withdraw, Second Session & Last Day for Faculty-Initiated Withdrawal.....	Thursday, April 19
Spring Semester Ends, Full and Second Sessions (last day of classes).....	Friday, May 11
Grades Due/Commencements.....	Saturday, May 12

2018 SUMMER SEMESTER

10-Week Session Classes Begin	Monday, May 21
1st 5-Week Session Classes Begin.....	Monday, May 21
Schedule Adjustment 5 & 10-week Sessions.....	Monday-Tuesday, May 21-22
Memorial Day – College Closed	Friday - Monday, May 25 - 28
Final Registration Day (8-week Session)	Monday, June 4
8-Week Session begins.....	Tuesday, June 5
Schedule Adjustment – 8-Week Session	Tuesday & Wednesday, June 5-6
Last Day to Withdraw from 1st 5-week session.....	Tuesday, June 12
Commencement Applications Due.....	Friday, June 15
Last Day for Faculty-Initiated Withdrawal from 1st 5-week Session	Tuesday, June 19
1st 5-Week Session Ends.....	Monday, June 25
2nd 5-Week Session Begins.....	Tuesday, June 26
Schedule Adjustment – 2nd 5-Week Session	Tuesday & Wednesday, June 26-27
Last Day to Withdraw from 10-week Session	Tuesday, July 3
Independence Day Holiday - College Closed	Wednesday, July 4
Last Day to Withdraw from 8-Week Session.....	Tuesday, July 10
Last Day to Withdraw from 2nd 5-Week Session.....	Tuesday, July 17
Last Day for Faculty-Initiated Withdrawal from 10-week Session.....	Tuesday, July 17
Last Day for Faculty-Initiated Withdrawal from 8-week Session	Tuesday, July 19
Last Day for Faculty-Initiated Withdrawal from 2nd 5-week Session.....	Tuesday, July 24
Summer Semester Ends, All Sessions (last day of classes)	Tuesday, July 31
8, 10, and 2nd 5-Week Session Grades Due	Wednesday, August 1

STAFF HOLIDAY CALENDAR

Labor Day	Monday, September 4, 2017
Thanksgiving Holiday	Thursday - Friday, November 23 - 24, 2017
Holiday Break	Wednesday, December 20, 2017 - Monday, January 1, 2018
Martin Luther King Holiday	Monday, January 15, 2018
Easter Break	Friday, March 30, 2018
Memorial Day.....	Friday & Monday, May 25 & 28, 2018
Independence Day Holiday	Wednesday, July 4, 2018

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- Swain Center
- Virtual Campus Tours
- Important Phone Numbers

COLLEGE VISION

Southwestern Community College will be an educational gateway for enriching lives and strengthening our community.

MISSION STATEMENT

Southwestern Community College is a learning and teaching institution offering high-quality, innovative instruction and support, which promotes student achievement, academic excellence and economic development.

INSTITUTIONAL GOALS

The College will...

1. Provide excellence in learning and teaching for transfer and career education, literacy development, business and industry training and lifelong learning in an accessible format (including face to face, blended, and distance learning).
2. Maintain a nurturing learning environment by providing comprehensive support and intervention services for every individual.
3. 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 professional development.
5. Foster cooperative community-based relationships which contribute to the cultural, economic, and educational advancement of the region.
6. Assess institutional effectiveness as part of the planning and renewal process based on continuous improvement principles.
7. Prepare citizens to live, learn and work in a diverse global village.
8. Increase community awareness of college programs and services.

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 and the Qualla Boundary.

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 degree curricula as well as concentrations, instruction is provided in a wide range of programs. In addition to the Jackson Campus, the college opened a Macon Campus in 2007 and also operates centers in Bryson City and Franklin. 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 nine build-

ings, totaling 232,728 square feet, including a library. Centrally located to serve southwestern North Carolina, the College is 50 miles southwest of Asheville 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 Great Smoky Mountains and the variety of recreational opportunities available.

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 Title 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, post-secondary 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 selected by the Student Club Council.

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.

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.

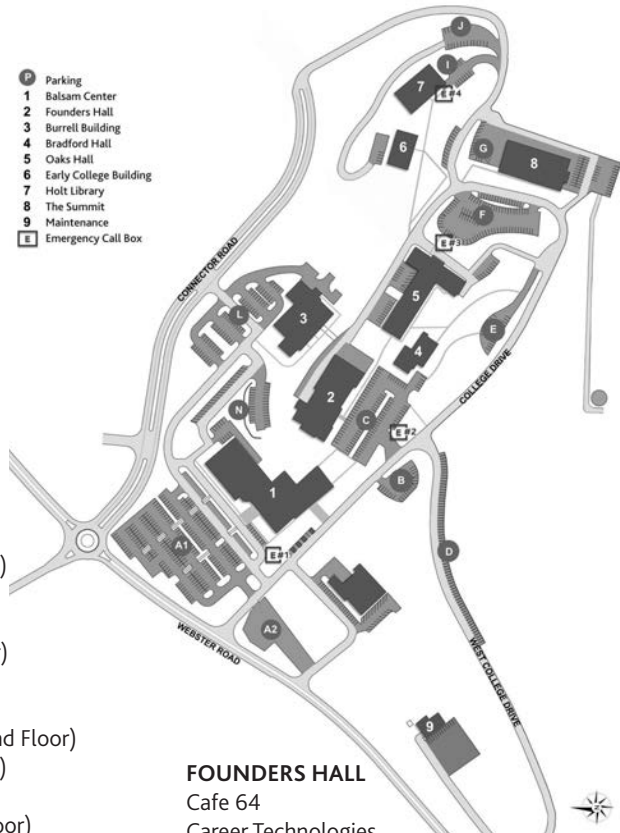
ACCREDITATION AND APPROVAL

Southwestern Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees, diplomas, and certificates. 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

- Accreditation Council for Occupational Education (ACOTE)
- American Occupational Therapy Association (AOTA)
- 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 Sheriff's Standards and Training Commission
- North Carolina State Approving Agency for Veterans & Military Education Programs
- Seasonal Law Enforcement Training Program (SLETP)
- United States Department of the Interior National Park Service

JACKSON CAMPUS - 447 COLLEGE DRIVE, SYLVA, NC 28779



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)
- Human Resources (1st Floor)
- Registrar (1st Floor)
- Technology Services (3rd Floor)
- Student Services (1st Floor)

BRADFORD HALL

- Conference Center (1st Floor)
- Gymnasium (2nd Floor)
- Center for Teaching Excellence (3rd Floor)
- Instruction &
- Student Services Office (3rd Floor)

BURRELL BUILDING

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

FOUNDERS HALL

- Cafe 64
- Career Technologies
- Division Office (2nd Floor)
- Workforce Innovations &
- Continuing Education (1st Floor)
- Cosmetology (1st Floor)

HOLT LIBRARY (The Pines)

- PR/Public Information Office

OAKS HALL

- Arts & Sciences Division Office (1st Floor)
- Student Support Services (1st Floor)
- Disability Services Office (1st Floor)
- Educational Opportunities (2nd Floor)
- Learning Assistance Center (2nd Floor)
- New Century Scholars Office (1st Floor)

THE SUMMIT

- Classrooms
- University Transfer Advising Center (2nd Floor)

MACON CAMPUS - 44 SILER FARM ROAD, FRANKLIN, NC 28734

The Macon Campus is on a 20-acre site at 44 Siler Farm Road in Franklin. The Groves Center Building is the beginning of a resource-rich campus, which houses administration, computer laboratories, interactive classrooms, a Learning Assistance Center, a college bookstore, and a University Transfer Advising Center (UTAC). In addition, students have borrower privileges at the Holt Library on the Jackson Campus and the adjacent Macon County Public Library. The Macon Early College program is also located on the Macon Campus, housed in the Ledford Building. The campus is home to evening classes for adult basic skills, high school equivalency, English Language Acquisition (ELA), and continuing education/workforce development.



Current curriculum-based programs offered at the Macon Campus include:

- College Transfer - Associate of Arts Degree & Associate of Science Degree

Additional course offerings include:

- Nurse Aide I - Continuing Education & Curriculum
- Pre-Health Science and Medical Terminology

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 an enriching high 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 associate degree. For additional information about the program, please contact the MEC office at 828.306.7006 or 828.306.7016.

JERRY SUTTON PUBLIC SAFETY TRAINING CENTER - 225 INDUSTRIAL PARK LOOP, FRANKLIN, NC 28734

The Jerry Sutton Public Safety Training Center is located in the Macon County Industrial Park in Franklin. 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/scc-locations/jerry-sutton-public-safety-training-center.

SWAIN CENTER - 60 ALMOND SCHOOL ROAD, BRYSON CITY, NC 28713

Located 5 ½ miles west of Bryson City on Highway 74 in the Luada Community, the Swain Center occupies the old Almond School. This site houses the Nantahala School for the Arts, the Outdoor Leadership program, adult secondary and literacy classes, College and Career Readiness (GED/HiSET) and Job and Career Preparation (HRD) classes, computer labs and general classrooms. Call 828.366.2000 or visit www.southwesterncc.edu/scc-locations/swain-center.

VIRTUAL CAMPUS TOURS

Videos of SCC campuses, centers and programs are available on the College's YouTube channel at www.youtube.com/user/1scnc

IMPORTANT PHONE NUMBERS—JACKSON CAMPUS

800.447.4091 • 828.339.4000

Arts & Sciences - Oaks Hall, 1 st Floor	Ext. 4300
Barbara Putman, Dean of Arts & Sciences	
Jill Wolfe, Administrative Assistant	
Bookstore	Ext. 4222
Business Services	
Toni Holland, Cashier/Accountant.....	Ext. 4290
Career Technologies - Founders Hall, 2 nd Floor	Ext. 4204
Dean of Career Technologies	
Pam Mathis, Administrative Assistant	
College Access - Balsam Center, 1 st Floor	
Amanda Everhart, College Access Coordinator	Ext. 4291
Matthew C. Kirby, College Liaison.....	Ext. 4433
Disability Services and Counseling Office	
Tonya Basse, Student Disabilities Services Coordinator	Ext. 4326
Peter Buck, Student Counselor.....	Ext. 4243
Educational Opportunities - Oaks Hall, G5, 2 nd Floor.....	Ext. 4272
Debbie Smith, Educational Opportunities Director	
Donna Wilson, Administrative Assistant	
Health Sciences - Balsam Center, 2 nd Floor.....	Ext. 4305
Mitch Fischer, Dean of Health Sciences	
Jessica Gunter, Administrative Assistant	
Holt Library	
Dianne Lindgren, Director.....	Ext. 4269
Tracy Musick, Librarian	Ext. 4268
Instruction & Student Services - Bradford Hall, 3 rd Floor	Ext. 4377
Thom Brooks, Executive Vice President for Instruction and Student Services	
Betsy Clayton, Administrative Assistant	
Learning Assistance Center - Oaks Hall, 2 nd Floor	Ext. 4325
Toni Knott, Coordinator	
Learning Support - Bradford Hall, 3 rd Floor	
Bethany Emory, Dean of Learning Support	Ext. 4261
Erin McCully, E-Learning Specialist.....	Ext. 4398
New Century Scholars	
Pamela Judson, Part-Time New Century Scholars Coordinator	Ext. 4477
Student Services - Balsam Center, 1 st Floor	
Cheryl Contino-Conner, Dean of Students.....	Ext. 4245
Martin Aucoin, Director of Enrollment Management	Ext. 4217

Clyanne Hyde, Director of Student Records/Registrar	Ext. 4406
Dominique P. Benson, College Success Coach/Advisor	Ext. 4408
Tori Addington-Ellison, College Success Coach/Advisor	Ext. 4407
Beth Kabinoff, Records Technician	Ext. 4219
Jody Woodring, Testing Coordinator/Enrollment Counselor	Ext. 4332
Benjamin Haines, Administrative Assistant - Admissions	Ext. 4253
April Copeland, Administrative Assistant - Enrollment Services	Ext. 4352
Michael Despeaux, Director of Career Services	Ext. 4212
Jodie Waldroup, Career Counselor	Ext. 4424
Melody Lawrence, Financial Aid Director	Ext. 4224
Sayward Cabe, Financial Aid Assistant Director	Ext. 4315
Tyler Cook, Financial Aid Counselor	Ext. 4207
Cathy Setser, Financial Aid Technician	Ext. 4338
Susan Huss, Administrative Assistant - Financial Aid	Ext. 4438
Suzanne Vincent, College Readiness Coordinator (Swain Center)	366.2001
Jennie Ashlock, Administrative Assistant - Enrollment Services (Swain Center)	366.2000
Student Support Services - Oaks Hall, 1 st Floor	
Mark Ellison, Director	Ext. 4229
Laurie Butler, Advisor	Ext. 4231
Susan Bradshaw, Administrative Assistant	Ext. 4420
Mary Lockey, Advisor/Intake Coordinator	Ext. 4198
Workforce Innovations - Founders Hall, 1 st Floor	Ext. 4426
Jason Lambert, Dean of Workforce Innovations and Economic Development	
Latresa Downs, Administrative Assistant	

IMPORTANT PHONE NUMBERS— PUBLIC SAFETY TRAINING CENTER

800.447.4091 • 828.306.7041

Public Safety Center Administration	
Curtis Dowdle, Dean of Public Safety Training	Ext. 7040
Allison Fox, Administrative Assistant	Ext. 7041
Kelsie Bowman, Part-Time Administrative Assistant	Ext. 7047
Tiffany Hurst, Part-Time Administrative Assistant	Ext. 7042
Emergency Medical Science Program	
Todd Sumner, EMS Program Director	Ext. 7044
Travis Hedden, Clinical Coordinator	Ext. 7053
Fire and Rescue Program	
Kameron Buchanan, Fire/Rescue Program Director	Ext. 7045
Law Enforcement Program	
Mitch Boudrot, LETP Director	Ext. 7043
Matt Reynolds, LE Program Coordinator	Ext. 7046
Donald Coleman, LE Instructor	Ext. 7055
Mark Welch, In-Service Coordinator	Ext. 7052
Online Training	
Pam Bell, Online Training Specialist	Ext. 7033

IMPORTANT PHONE NUMBERS— MACON CAMPUS

800.447.4091 • 828.306.7001

Macon Campus Administration

Cheryl Davids, Dean of Macon Campus..... Ext. 7018
 Polly Russell, Administrative Assistant Ext. 7001
 Steve Bush, Evening Administrative Assistant..... Ext. 7001

Bookstore Ext. 7032

Early College

Angie Noland, College Liaison Ext. 7016

Educational Opportunities

Rita Gregory, Coordinator Ext. 7020

Faculty

Sandy Gladden Ext. 7023
 Stephen Hesselburg..... Ext. 7031
 David Jons Ext. 7024
 Elaine Merritt..... Ext. 7022
 Elizabeth Steere..... Ext. 7050

Learning Assistance Center

Norrie Meus, Coordinator Ext. 7028

Student Services

Director Ext. 7017

ADMISSIONS/ENROLLMENT

- Admissions/Enrollment
- Steps to Apply and Enroll
- Application to Selective Admissions Health Science Programs
- Testing
- Orientation
- mySCC/Web Mail/Information Technology
- 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 official documentation of high school equivalency scores. Prior to admission to a curriculum program, an applicant must attain designated scores or waivers on one of the approved multiple measure placement indicators: SAT, ACT, high school GPA, the College placement test or approved transferable course work. 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 certain health science programs generally have additional specific entrance requirements. **

High school age students may be admitted into curriculum courses based upon the requirements established in the Career and College Promise (CCP) program adopted by the State of North Carolina and the college. For more information about the CCP program, please see page 18 or contact the College Access Coordinator at 339.4291.

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 for two or more consecutive semesters must reapply. Any interruption in enrollment will result in graduation requirements per the most recent catalog. The Dean of Students 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"> • A high school diploma 	All programs **
<ul style="list-style-type: none"> • A high school equivalency diploma 	All programs **
<ul style="list-style-type: none"> • No high school diploma or high school equivalency 	<ul style="list-style-type: none"> • Specific courses as Special Credit • High school equivalency program • Adult High School Diploma Program • The following course: <ul style="list-style-type: none"> • Nursing Assistant I (see program description) • The following Certificate programs: <ul style="list-style-type: none"> • Air Conditioning, Heating, Refrig. Tech. • Automotive Systems Technology • Culinary Arts • Trades - Welding • Other certificate programs may be available - contact Admissions at 828.339.4352.

** 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 • 828.339.4253 or 828.339.4352

Address: 447 College Drive, Sylva, N.C. 28779

Webpage: www.southwesterncc.edu • Email: admissions@southwesterncc.edu

STEPS TO APPLY AND ENROLL**Degree, Diploma, or Selected Certificate Programs are required to:**

1. Submit an application for admission in accordance with the admission policy. This can be completed in writing or online at www.southwesterncc.edu. High school age students (traditional or home school) dually enrolling in high school and SCC classes will submit a one-page application through the Admissions office to the College Access Coordinator.
2. Submit an official transcript from a valid high school or a copy of high school equivalency 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.
5. Meet course placement requirements by submitting appropriate SAT, ACT, high school GPA, transferrable English or math course(s) or SCC placement test scores — Free test prep is available if you are required to take the SCC placement test.
6. Complete a FAFSA (Free Application for Student Aid) to determine funding eligibility to support your education.
7. Log into mySCC and assigned webmail address.
8. Register for and then attend New Student Orientation—Required of all new students.
9. Meet with an assigned advisor to register for classes.
10. Attend class on the first day.

Admission Refusal

Per policy 6.01.01, SCC 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, other individuals or the community. The Dean of Students 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, dismissal or suspension.

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 SCC ID# to each applicant for internal tracking, reporting and day-to-day college business functions. Disclosure of your social security number is optional. If you choose not to provide your social security number, a substitute number will be assigned. However, if you plan to apply for federal financial aid or if you plan to deduct your tuition on your taxes, your social security number will be required.

Non-Resident Student Restriction on Enrollment & State Authorization

For students of a state other than North Carolina, SCC must be authorized to offer classes and/or programs by the state in which the student resides.

SCC has joined the National Council for State Authorization Reciprocity Agreements (NC-SARA). As of catalog print time, all US states are included in this reciprocity agreement with the exceptions of Florida, California and Massachusetts. If you are a resident of Florida, California or Massachusetts and are interested in learning with us, you must seek approval from our admissions office before registering for classes.

APPLICATION TO SELECTIVE ADMISSIONS HEALTH SCIENCE PROGRAMS

Applicants to selective 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. Meet the Placement Test requirements as described in the Testing section and complete all required developmental courses.
3. Meet the additional program requirements outlined by the deadline indicated in the particular Health Science program description—see the appropriate program listing in this catalog.
4. Applicants seeking 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	Test Required
Medical Laboratory Technology	January 31	Fall 2017	None
Nursing Associate Degree(RN)	January 31	Fall 2017	ATI TEAS
Physical Therapist Assistant	February 15	Fall 2017	ATI TEAS
Radiography	March 1	Fall 2017	ATI TEAS
Respiratory Therapy	March 1	Fall 2017	ATI TEAS
Emergency Medical Science	March 31	Fall 2017	ATI TEAS
Medical Sonography	March 15	Fall 2017	ATI TEAS
Medical Assisting (AAS)	April 1	Fall 2017	ATI TEAS
Therapeutic Massage	April 25	Fall 2017	None
Human Services	June 30	Fall 2017	Gordon Personal Profile Inventory
(see program descriptions for details)		(see Testing section)	

Applicants should meet with assigned advisor prior to deadline.

TESTING

The Testing Center provides a variety of testing services for SCC students and non-SCC students including placement testing, Health Science admission testing and test proctoring. The following information related to placement testing and Health Science admission testing is subject to change. Please see the SCC Testing Center webpage for up-to-date information: www.southwesterncc.edu/testing-center.

Placement Testing

Applicants to all degree, diploma and selected certificate programs of study are required to demonstrate competence in reading, English, math and computer skills. This requirement may be satisfied in one of the following ways:

1. ACCUPLACER Placement Test
 - a. Taking the Test
 - Free to all SCC applicants.
 - Free test prep is available for testers by contacting the SCC Educational Opportunities Office at 828.339.4272.
 - Placement testing is untimed and may take up to five hours to complete all test sections.
 - Schedule to take the test by contacting the Testing Center.
 - A valid photo I.D. is required at the time of testing.
 - Test Regulations - Cell phones, 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. 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 Testing Center for assistance in locating a test site near them.
 - b. Subject Areas
 - Basic Computer Skills: A score of $\geq 50\%$ is required for high school graduates with diplomas awarded more than six years prior to the date of intended enrollment. High school equivalency students and high school graduates with General Prep or Occupational Prep diplomas must also take this test. Students may be waived from this test if they were high school graduates within six years with College Prep or Tech Prep diplomas awarded. Students with college transfer credit of a 100 level computer course with a grade of $\geq C$ are considered to have met this requirement and are exempt from the test.
 - NC DAP - Diagnostic Reading & English: The test contains three components - reading comprehension, revising/editing/writing, and an essay. A composite score will place students into Developmental Reading & English (DRE) or curriculum English courses. A composite score of 151 or higher is required to meet developmental educational requirements. Students with college transfer credit of 100 level English course with a grade of $\geq C$ are considered to have met this requirement and be exempt from the test. SAT or ACT scores may also be submitted to meet this guideline. See number 3 or 4 below. For additional diagnostic assessment guidelines please contact the Testing Center.
 - NC DAP - Diagnostic Math: Score of ≥ 7 on each of the six math modules is required to meet developmental educational requirements. Students with college transfer credit of 100 level Math course with a grade of $\geq C$ are considered to have met this requirement and be exempt from the test. SAT or ACT scores may also be submitted to meet this guideline. See number 3 or 4 below. For additional diagnostic assessment guidelines please contact the Testing Center.

- c. 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: Classic ACCUPLACER test scores are considered valid for initial placement for a period of three years from the date the assessment was completed. NCDAP - Diagnostic ACCUPLACER test scores are considered valid for initial placement for a period of five 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.
 - d. Retest Policy:
 - NC DAP testing is valid for five (5) calendar years. Other versions of ACCUPLACER testing are valid for three (3) calendar years. During this time period students can retest once per year if they meet the following criteria:
 - Score above one hundred and sixteen (116) composite score on the NC DAP English, Reading and Essay test, and/or score a seven (7) or above on two (2) of the six (6) DMA Math test sections.
 - Prior to retesting a student must complete one of the following:
 - Schedule and attend a Test Prep Session in the relevant area of study (English and/or Math) offered via Educational Opportunities (Phone: 828.339.4272)
 - Long distance students must access the free online College Board NC DAP web-based study app and complete relevant subject specific practice tests. Completion of practice tests must be verified prior to retesting.
2. Multiple Measures
 - Placement testing is waived for students who graduated from a North Carolina high school within the last five years with an unweighted GPA ≥ 2.6 and have completed four eligible math courses. Student must submit HS transcript to Registrar's Office for review.
 - Students with a high school GPA between 2.6 and 3.0 will be required to take a support class as a co-requisite with their first college-level English or math course. Students with a GPA ≥ 3.01 will not be required to take these support classes.
 3. SAT
 - Scores for tests taken prior to March 2016: Scores of ≥ 500 in Verbal (Critical Reading) OR ≥ 500 in Writing AND ≥ 500 in Math are required for college-level course placement. Scores for tests taken on or after March 1, 2016: Scores of ≥ 480 in Evidence-Based Reading & Writing AND ≥ 530 in Math are required for college-level course placement.
 - Test scores are considered valid for a period of five years from the date of the assessment.
 - 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 Diagnostic ACCUPLACER test.
 - The College may require additional math testing prior to being permitted to take upper level math courses
 4. ACT
 - Scores: ACT scores of ≥ 22 in Reading or ≥ 18 in English AND ≥ 22 in Math are required for college-level course placement.
 - Test scores are considered valid for a period of five years from the date of the assessment.
 - 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 Diagnostic ACCUPLACER test.
 - The College may require additional math testing prior to being permitted to take upper level math courses.

5. College Transfer Credit
 - Submit official transcripts demonstrating successful completion of college-level math, English and computer courses at a regionally accredited college or university.
 - 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.
 - Courses classified as developmental or remedial will not transfer to SCC but may be used to meet the Placement Test requirements if taken at a North Carolina institution.
 - Official transcripts must be received from the issuing institutions before placement credit is awarded.
6. Other Placement Tests
 - The College accepts ASSET and COMPASS scores. Scores must be sent from the institution administering the test. Test scores are considered valid for initial placement for a period of three years from the date of the assessment. Contact the Testing Center for details.

Health Science Admission Testing

Applicants to some Selective Admission Health Science programs are required to complete additional testing as part of the admission process.

1. ATI TEAS (Test of Essential Academic Skills) Exam
 - Applicants seeking admission into the following Selective Admission Health Science programs must take the ATI TEAS Exam prior to the program deadline: Nursing Associate Degree, Nursing RIBN, Emergency Medical Science, Medical Assisting, Medical Sonography, Occupational Therapy Assistant, Physical Therapist Assistant, Radiography and Respiratory Therapy
 - The ATITEAS exam was developed based upon the 9-12 grade Science, Reading, Math and English Language Usage standards identified as important for students to possess upon entry into a health science program. (This is an updated version of the TEAS V Nursing or Allied Health exam).
 - The score (range from 0%-100%) will be used as one component in the highly competitive selection process.
 - Scores will be considered valid for a term of three years from the date of the exam.
 - Applicants may test at SCC once per academic year. Only the first score received by SCC for applicants who tested at another institution will be accepted per academic year. The academic year is defined as August 1 through July 31.
 - Health Science programs use the score differently based on specific program selection criteria. Please see the Program Coordinator for details.
 - Please see the Phase I requirements for each program for information pertaining to a required minimum score to be considered eligible for admission into the program.
 - ATI Testing charges a fee of \$66 for test administration and scoring.
 - To register for the ATI TEAS, please visit www.atitesting.com.
 - For more information about the ATI TEAS test, please contact the Testing Center or refer to the Testing Center webpage at www.southwesterncc.edu/testing-center.
2. GPP-I (Gordon Personal Profile Inventory)
 - Applicants seeking admission into the Human Services Technology and Human Services Technology-Substance Abuse programs must take the GPP-I prior to the program deadline.
 - There is a \$24 fee for the GPP-I which is payable to the SCC Cashier prior to testing.
 - To register for the GPP-I, please contact the Testing Center.

Proctoring Services

The SCC Testing Center is pleased to offer test proctoring for students who are taking non-SCC distance education and/or online classes. Online classes often require students to take exams which are administered in person by an approved proctor.

- A proctored testing appointment must be scheduled at least two weeks in advance. Ability to schedule proctored tests is determined by the availability of Testing Center staff.
- The student is responsible for ensuring that testing materials arrive no later than 48 hours before the scheduled test.
- Students taking a test proctored by SCC must present a paid receipt for proctoring fees (\$25 for non-SCC students or \$10 for SCC alumni or former students), valid photo identification and must provide any allowable equipment and materials required for the test.
- All testing guidelines provided to the testing proctor by the requesting institution will be followed. A proctor will monitor the student at all times. Information about this service is provided on our Testing Center webpage.
- Please contact the Testing Center to schedule a proctored exam.

How to Contact the Testing Center

Location: Jackson Campus, Balsam Center

Hours: By Appointment

Telephone: 800.447.4091 • 828.339.4332 or 4352

Address: 447 College Drive, Sylva, N.C. 28779

Webpage: www.southwesterncc.edu/testing-center

Email: testing@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 important policies, resources and services available at SCC and provide valuable information needed to facilitate student academic success.

Prior to the start of fall and spring semesters, live orientation sessions are conducted on the Jackson campus. New Student Orientation may also be completed at any point on the college website. Students are not permitted to register for the next semester of study until they have completed the orientation program, either seat based or online.

mySCC/WEB MAIL/INFORMATION TECHNOLOGY

All students accepted into a curriculum program are automatically assigned an SCC account that will allow them to access mySCC, email and WebAdvisor. In addition, students will use their accounts to access Blackboard and other services once classes have started.

The SCC account will be the student's official email account when contacting anyone at the College and will be used by the College and instructors to correspond with students.

Students experiencing account problems need to contact the helpdesk at workorder@southwesterncc.edu or call 828.339.4409 or 800.447.4091, ext. 4409.

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

Career & College Promise allows qualified sophomores (in approved programs), juniors, and seniors to 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 work-place and college preparation. For more information about these opportunities, please visit www.southwesterncc.edu or email the College Access Coordinator ccp@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 community college campus. 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 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; 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 providing students with guaranteed last-dollar tuition assistance at Southwestern Community College. Students from Jackson, Macon, Swain counties and the Qualla Boundary are selected in the seventh grade and must meet expectations in academics, behavior and service learning to continue to participation in this college preparatory program. Attending workshops and enrichment opportunities throughout middle school and high school furthers student success in post-secondary education. Scholars who choose to attend SCC after high school graduation are given additional support during their transition from high school and throughout their college experience.

Upward Bound

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

For more information about these programs/services for high school students, visit www.southwesterncc.edu.

OTHER ENROLLMENT POLICIES**Gainful Employment Compliance Information**

Some of SCC's certificate and diploma programs are eligible for financial aid. For information regarding costs, completion time, jobs, etc., please visit our website, 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 N.C. 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 placing below the tenth percentile on college placement assessments in reading, writing or math will be referred to the Director of Educational Opportunities for advising. The director will assist the student in selecting a college, basic skills, or occupational education program that is appropriate for the student's educational and career goals.

NC Residency Determination Service (RDS)

The state of North Carolina partially subsidizes the cost of North Carolina public college and university tuition for all students whose domicile, or permanent legal residence, is in North Carolina. Residency determination establishes if students hold have in-state or out-of-state tuition. Because North Carolina residency status is governed solely by North Carolina statute, lack of eligibility for in-state status in another state does not guarantee in-state status in North Carolina. The residency statute mandates only those who can demonstrate a minimum of twelve months of uninterrupted domicile (legal residence) in North Carolina are eligible for in-state tuition. The statute also places the burden of proof on the student to establish, by a preponderance of evidence, that they are a bona fide domiciliary rather than mere residents or North Carolina.

The Residency Determination Service (RDS) was established in coordination with the University of North Carolina (UNC), the North Carolina Community College System (NCCCS), the North Carolina State Education Assistance Authority (NCSEAA), and the North Carolina Independent Colleges and Universities (NCICU) as the centralized service for determining residency for students. This service enables a student to use one residency determination for admissions applications to multiple North Carolina public colleges and universities and to demonstrate residency for state aid programs consideration at all (public and private) North Carolina colleges and universities.

Students applying to SCC will be required to complete a residency determination online interview with the North Carolina Residency Determination Service (RDS) as part of the online application process. For more information on residency determination guidelines and appeals visit ncresidency.org.

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 residents 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 F-1 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 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 in the Registrar's Office.

Undocumented Immigrant Students

Undocumented immigrants are eligible for admission. Refer to SCC Policy 6.01.01.01 for special rules. Contact the Admissions Office for the most up-to-date information regarding admission.

Undocumented Students - Friendly Programs at SCC

In an effort to connect with our Deferred Action for Childhood Arrivals (DACA) population, SCC has developed a list of programs in which DACA students can graduate without fear of end-of-program licensure exams that would prohibit SCC from granting professional licenses and thereby limiting employment. This list is subject to change. DACA students should always communicate their status during SCC advising sessions.

Health Sciences	Career Technologies	Transfer Degrees
Associate in General Education	Accounting	Associate in Arts
Health Information Technology	Advertising and Graphic Design	Associate in Fine Arts
Human Services Technology	Air Conditioning, Heating & Refrig.	Associate in Science
Human Services Technology – Substance Abuse	Automotive Systems Technology	
Nurse Aide I	Business Administration	
Outdoor Leadership	Bus. Admin. – E Commerce	
	Bus. Admin. – Entrepreneurship	
	Business Admin. – Office Admin.	
	Civil Engineering Technologies	
	Computer Engineering Technology	
	Culinary Arts	
	Early Childhood Education	
	Electronics Engineering Technology	
	Geomatics Engineering Technology	
	Information Technology – Mobile Applications Developer	
	Information Technologies – Network Management	
	Information Technologies – Software and Web Development	
	Information Technologies – IT Support and Services	
	Mechatronics	
	Medical Office Administration	

1D SBCCC 400.2 dated October 23, 2014, Subparagraph (b)(5) “when considering whether to admit an undocumented immigrant into a specific program of study, community colleges shall take into account that federal law prohibits states from granting professional licenses to undocumented immigrants.”

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 Executive 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 priority 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 reapply by completing an Application for Admission before meeting with their assigned academic advisors to initiate the registration process.

Schedule Adjustment

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."

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 cannot 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, N.C. 28779
Webpage: www.southwesterncc.edu/registrar

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 Major" form to the Admission'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 Admissions Office. The student must provide a Social Security Card as proof of the name change.

Transfer Agreements

Southwestern Community College has established transfer articulation agreements with numerous colleges and universities creating a seamless transition for earning a bachelor's degree. Many of the agreements are for associate of applied science degree programs. These agreements are designed to identify the maximum number of transferable credits that can be completed at SCC, as well as the courses remaining upon transfer. Each agreement includes contact information for advisors who can assist you in the transfer process. For a complete list of agreements go to www.southwesterncc.edu/transfer.

Coursework in the College Transfer Associate in Arts curriculum will satisfy general education and liberal arts requirements at all N.C. community colleges, N.C. public universities and most N.C. private universities and colleges. 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 post-secondary transcripts are submitted.** A VA application must be submitted by the student before a student can be certified for benefits by the VA Certifying Official. For more details, contact the VA Certifying Official located in the Enrollment, Balsam Center or call 828.339.4000.

Credit for AP & CLEP

Southwestern Community College awards Advanced Placement credit as follows:

AP EXAMINATION	SCORE REQUIRED	HOURS GRANTED	SCC COURSE(S) SATISFIED
Art History	3	3	ART 114
	4 or 5	6	ART 114, 115
Biology	3	4	BIO 111
	4 or 5	8	BIO 111, 112
Calculus AB	3	4	MAT 271
Calculus BC	3	8	MAT 271, 272
Chemistry	3	4	CHM 151
	4 or 5	8	CHM 151, 152
Computer Science A	3	3	CIS 115
Computer Science AB	3	3	CIS 115
English Language and Composition or English Literature and Composition	3	3	ENG 111
	4 or 5	6	ENG 111, 112
Environmental Science	3	4	BIO 140, 140A
European History	3	3	HIS 121
	4 or 5	6	HIS 121, 122
French Language or French Literature	3	6	FRE 111, 112
	4 or 5	6	FRE 211, 212
German Language or German Literature	3	6	GER 111, 112
	4 or 5	6	GER 211, 212
Human Geography	3	3	GEO 111
US Government & Politics	3	3	POL 120
Comparative Government & Politics	3	3	POL 230
Macroeconomics	3	3	ECO 252
Microeconomics	3	3	ECO 251
Music Theory	3	3	MUS 110
Physics B	3	8	PHY 151, 152
Physics C: Mechanics	3	4	PHY 251
Physics C: Electricity and Magnetism	4 or 5	8	PHY 251, 252
Psychology	3	3	PSY 150
Spanish Language or Spanish Literature	3	6	SPA 111, 112
	4 or 5	6	SPA 211, 212
Statistics	3	3	MAT 152
	4 or 5	4	MAT 155
Studio Art: Drawing	3	3	ART 131
US History	3	3	HIS 131
	4 or 5	6	HIS 131, 132
World History	3	3	HIS 111
	4 or 5	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:

CLEP EXAMINATION	SCORE REQUIRED	HOURS GRANTED	SCC COURSE(S) SATISFIED
American Government	50	3	POL 120
American Literature	50	3	ENG 231
	58	6	ENG 231, 232
Analyzing and Interpreting Literature	50	3	ENG 131
Biology	50	4	BIO 111
	57	8	BIO 111, 112
Calculus	50	4	MAT 271
	64	8	MAT 271, 272
Chemistry	50	4	CHM 151
	65	8	CHM 151, 152
College Algebra	50	3	MAT 161
College Composition or College Composition Modular	50	3	ENG 111
	59	6	ENG 111, 112
College Math	50	3	MAT 143
English Literature	50	3	ENG 241
	62	6	ENG 241, 242
Financial Accounting	50	4	ACC 120
	65	8	ACC 120, 121
French Language I	64	3	FRE 111
French Language II	69	6	FRE 111, 112
German Language I	59	3	GER 111
German Language II	67	6	GER 111, 112
History of the United States I	50	3	HIS 131
History of the United States II	50	3	HIS 132
Human Growth and Development	50	3	PSY 241
Humanities	50	3	HUM 211
	56	6	HUM 211, 212
Information Systems and Computer Applications	50	3	CIS 110
	59	6	CIS 110, 115
Introductory Business Law	50	3	BUS 115
Introductory Psychology	50	3	PSY 150
Introductory Sociology	50	3	SOC 210
Pre-calculus	50	3	MAT 175
Principles of Macroeconomics	50	3	ECO 252
Principles of Management	50	3	BUS 137
Principles of Marketing	50	3	MKT 120
Principles of Microeconomics	50	3	ECO 251
Spanish Language	56	3	SPA 111
	68	6	SPA 111, 112
Western Civilization I	50	3	HIS 121
Western Civilization II	50	3	HIS 122

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
- Withdrawal Procedures
- Attendance Requirements and Administrative Withdrawal
- Graduation Application and Commencement Ceremony
- Degrees
- E-Learning
- Grades
- Honors/Academic Organizations
- Licensing of Graduates
- Policies/Procedures
- Weather Policy

ACADEMIC ADVISING

Career Technologies and Health Sciences majors will be assigned an academic advisor as part of the application process. College Transfer majors will visit the University Transfer Advising Center (UTAC) for advising needs. 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 percentile 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.

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 (paper or electronically) 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 division academic dean and then is processed in the Registrar's Office.

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 Office before withdrawing from a course.

It is the responsibility of the student to initiate the withdrawal process. If a student stops attending class for more than two consecutive weeks and does not complete an official withdrawal, the instructor may submit an Administrative Withdrawal to the Registrar's Office. Please refer to the Administrative Withdrawal policy.

ATTENDANCE REQUIREMENTS AND ADMINISTRATIVE WITHDRAWAL

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.”

Any student who has been absent for two consecutive weeks in a 16-week term or one week in shorter academic terms will be administratively withdrawn from the course.

A student in an online, hybrid or web-assisted course will be administratively withdrawn following two consecutive weeks in a 16-week term (or one week in shorter academic terms) of missed assignments, missed attendance (for hybrid), and lack of communication with the instructor regarding course participation. Consistent with policies establishing attendance in online courses, logging into a course site but failing to perform the aforementioned actions does not constitute attendance.

A grade of “WF” will be assigned for any course from which the student is administratively withdrawn. Administrative withdrawals will be allowed up to the published Administrative Withdrawal deadline date each semester (approximately the 85% point of the semester). Thereafter, the earned grade will be posted. Tuition refunds or credits will not result from an administrative withdrawal.

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.

GRADUATION APPLICATION AND COMMENCEMENT CEREMONY

At the end of fall and spring academic terms, 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 for graduation 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 in the commencement program.

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 which will be mailed to the address indicated on the graduation 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 a program GPA of 2.00 or higher 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 Graduation. 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 Graduation. 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 and click on Exit Counseling under Tools and Resources. Contact the Financial Aid Office at 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 place an order online with the Herff-Jones website (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 \$32). 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 can be found at www.southwesterncc.edu/content/commencement-faqs. The graduate rehearsal is always held the preceding business day before the ceremony in the auditorium at 3 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 at www.southwesterncc.edu/registrar. 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 828.339.4243.

DEGREES

Associate Degree

Academic programs for which an Associate of Applied Science degree is awarded require the successful completion of 60-76 semester hour credits and are designed to provide entry-level employment training. The Associate of Arts and the Associate of Science degrees require the successful completion of 60 semester hour credits. The Associate of Fine Arts degree requires the successful completion of 65 semester hour credits. These degrees are 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 12-8 semester hour credits in a particular certificate-granting program. Certificate programs are designed for specific skill development.

Minimum Course Work Requirements (Credit in Residence)

In order for an associate 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 Executive 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.

E-LEARNING

E-learning is most commonly characterized as teaching and learning that takes place between students and teachers through the use of technology. Southwestern Community College offers e-learning courses in several formats, including web-enhanced, hybrid, online, and Interactive Television (ITV). Students' tuition and fees, access to student support services, and academic credit is the same regardless of course location or mode of delivery. E-learning students are expected to adhere to the College's rules and regulations. E-learning students are expected to be actively engaged in the learning environment and show participation on a consistent basis in alignment with SCC's attendance policy.

Successful learners are highly motivated, self-disciplined individuals, who are confident in their academic abilities, and e-learning students are no exception. They should have consistent access to the Internet. Students may access the Internet from their home, from SCC Computer labs on campus, or from local libraries or businesses. E-learners should be comfortable with technologies such as email, word processing, and browsers. While e-learning students are not expected to be computer experts, they should feel comfortable working with technology. Students needing to improve their computer skills

should consider enrolling in an introductory computer course prior to selecting an online or hybrid course.

SCC uses Blackboard as its learning management system (LMS). Students are offered a number of opportunities to become familiar with the LMS. The college hosts hands-on training sessions at the Jackson and Macon campuses, during spring and fall semesters. In addition students have access to a self-paced online training course available in Blackboard throughout their enrollment at SCC.

Online / Web-centered

- Instruction will be delivered exclusively online.
- Access to a computer with Internet connectivity is required for successful completion.
- Online / Web-centered courses do not require on-campus attendance.

Hybrid

- Instruction will be delivered combining traditional classroom instruction and online or other electronic media.
- Hybrid courses allow students at the discretion of the instructor to complete a substantial amount of the course requirements electronically.
- Access to a computer with Internet connectivity is strongly suggested, but not required for successful completion.
- Hybrid courses require some on-campus attendance on designated dates and times, as communicated by the instructor.

Web-supported

- Instruction will be delivered primarily using traditional classroom instruction but will be enhanced through the use of online or other electronic media.
- Web-enhanced courses allow students at the discretion of the instructor to complete a smaller amount of the course requirements electronically.
- Access to a computer with Internet connectivity is suggested, but not required for successful completion.
- Web-enhanced courses require on-campus attendance on designated dates and times, as communicated by the instructor.

Traditional

- Instruction will be delivered in a traditional classroom setting.
- Access to a computer with Internet connectivity is not required for successful completion.
- Active student participation is required for satisfactory course completion.
- Traditional courses require on-campus attendance on all scheduled dates.

Community Link – Interactive Television (ITV)

Community Link – Interactive Television (ITV) is an interactive television network that virtually connects properly equipped educational sites in western North Carolina through fiber-optic cable.

- Instruction will be delivered in a traditional classroom setting.
- Access to a computer with Internet connectivity is not required for successful completion.
- Active student participation is required for satisfactory course completion.
- ITV courses require on-campus attendance on all scheduled dates.

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 a 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.

Course Credit by Examination

Students may earn course credit by examination in selected courses identified by program coordinators or department chairs. The applicable testing fee will apply and successful completion of the exam will result in an S grade for the course. Credit by examination may be earned prior to enrolling in a course or up to the 10% point if a student is enrolled in the course.

Grades in Developmental Courses

Grades in all courses below the 100 level should be one of the following: P, R, 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 Executive Vice President for Instruction and Student Services. The decision of the vice president is final.

Work-Based Learning

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. Work-based Learning 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.

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 grade points by the number of credit hours attempted. A cumulative program 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
R Repeat: Indicates that a student must repeat 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, and counts as a failing grade for Financial Aid GPA.	0
P Passing: Awarded upon mastery of developmental coursework and certain continuing education courses. Eighty percent attendance is required in continuing education courses.	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 Executive Vice President for Instruction and Student Services.	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
WF Withdraw failing: Any student who has been absent for two consecutive weeks in a 16-week term or one week in shorter academic terms will be administratively withdrawn from the course. This symbol does not count as hours attempted for purposes of calculating GPA. For financial aid purposes, these hours count as attempted but not completed.	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.
5. Combined coursework of students in consortium programs will be used to determine dean's and president's list eligibility.

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.
5. Combined coursework of students in consortium programs will be used to determine dean's and president's list eligibility.

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 degrees or diplomas according to their program GPA from the previous semesters of work. Each program GPA will be rounded to two decimal places.
2. Each candidate with a program GPA from 3.90 to 4.00 will graduate *summa cum laude*.
3. Each candidate with a program GPA from 3.70 to 3.89 will graduate *magna cum laude*.
4. Each candidate with a program GPA from 3.50 to 3.69 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.

SCC Honors Program

The Honors Program at Southwestern Community College is designed to:

- Encourage high achieving and highly motivated students to purposefully engage in coursework, by enriching and expanding the expectations of the traditional college course.
- Intentionally focus on academic excellence including critical thinking, communication skills, and academic inquiry.
- Emphasize development of skills in writing, research and/or advanced project development.
- Engage students and faculty across all disciplines.
- Encourage and support Honors students in leadership and service to the college and the community.

In addition to having the opportunity to participate in the highly motivating and academically challenging Honors program, students will enjoy the following benefits:

- Honors designation on transcripts and degree/diploma
- Special recognition at graduation and honors medallion
- Enhanced transfer opportunities
- Invitation to honors luncheon/forum with SCC Leadership
- Leadership and mentoring opportunities
- Direct link to Senior Institution Honor Colleges (SCC honor credits transfer to many institutions)

Eligibility

To be eligible for the Honors Program students must meet the following criteria:

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

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 Bethany Emory at 828.339.4261 or via email at b_emory@southwesterncc.edu.

Alpha Beta Gamma International Business Honor Society – Alpha Omega Chapter Advisor: Thom Brooks, Executive Vice President for Instruction & Student Services, and William Brothers, Dean of Career Technologies

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 program GPA of 3.0 or higher
- Demonstrate the ideals of scholarship, leadership, and cooperation
- Be nominated by program faculty.

National Technical Honor Society

Advisor: Thom Brooks, Executive Vice President for Instruction & Student Services

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 of NTHS 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.

To be considered for membership students must:

- Have completed 12 hours of academic course work above the 100 level
- Be enrolled as an active student in a degree, diploma or certificate program
- Have a 3.5 or greater program GPA
- Be nominated by program faculty

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 Executive 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 12 semester hours of curriculum courses should have been completed with a GPA of 3.00 or greater.
- The request for forgiveness is recommended to 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. Students will also be "perced" in the student record. (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.) Students may appeal an academic suspension per policy 6.02.04.

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. ACA 111 College Student Success (or its equivalent) is required for all new degree-seeking students. Students who transfer in 12 or more hours of college credit are exempt from this requirement.

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 academic dean. When courses are repeated, the grade and hours of the best course will be computed in the cumulative grade point average. The lower grade 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. Financial aid may be paid one time only for a student to repeat a previously passed class.

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 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 submit a FERPA Release and Restriction Form 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 on the next page. 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 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 a.m. Students should report to the class/lab/clinic they would be in at 10 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 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

Television Stations:

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

SCC Web Page:

www.southwesterncc.edu

Social Media:

Facebook

Twitter—Sign up for SCC Twitter notification and text alerts through the SCC webpage

FINANCIAL INFORMATION

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

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 2015-16. Tuition for 2016-17 will be available after July 1, 2016**

Per Semester

Full-Time, 16 hours or more	\$1216.00
Non-Resident Full-Time, 16 hours or more	\$4288.00
Part-Time Student (per credit hour)	\$76.00
Non-Resident Part-Time Student (per credit hour)	\$268.00

OTHER FEES*

***Tuition for 2015-16. Tuition for 2016-17 will be available after July 1, 2016**

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.

Course Credit by Exam	\$25
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
TEAS Exam (if applicable)	\$66
GPP-I Assessment (if applicable)	\$24
Health Science Clinical Readiness Check	\$125-\$175
Proctor Fee	
Non-SCC Student	\$25
SCC Alumni/Former Student	\$10
Malpractice Insurance (subject to change) Required for following programs - per year	
Cosmetology	\$30
Emergency Medical Services (per semester)	\$35.50
Health Information Technology	\$30
Human Services Technology	\$30
Human Services Technology Substance Abuse	\$30
Medical Laboratory Technology	\$30
Medical Sonography	\$30
Nursing Assistant	\$30
Nursing (Associate Degree)	\$30
Occupational Therapy Assistant	\$30
Pharmacy Technician	\$30
Physical Therapist Assistant	\$30
Phlebotomy	\$30
Radiography	\$30
Respiratory Therapy	\$30
Therapeutic Massage	\$30
Late Registration Fee	\$5

(Full-time returning students registering after registration day)

Commencement Fee (Cap & Gown - subject to change) Pay at the Bookstore. \$30-\$45

Textbooks/Supplies

Cost varies depending on the student's curriculum.
Check with the College Bookstore for prices.

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:

1. Tuition Payment Plan at www.myCollegePaymentPlan.com/swesterncc
2. Pay online with Mastercard, Visa, Discover or American Express using mySCC access
3. Cash or Personal Check
4. 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 sponsorship funding, and the sponsor will not be billed on his/her behalf. It is the responsibility of the student to verify that the sponsor authorization letter has been received by the business office.
5. Financial Aid—As long as you do not decline your financial aid award, you acknowledge that you plan to attend the upcoming semester and authorize the payment of tuition and fees from your financial aid. SCC will credit your award to your account to apply to tuition and fees, and books charged at the SCC Bookstore.

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 Cashier's Office

Location: Jackson Campus, Balsam Center

Telephone: 828.339.4290 • 800.447.4091, ext. 4290

Address: 447 College Drive, Sylva, N.C. 28779

Webpage: 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 10th 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 they are not in default on a federal student loan and do 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:

$$\text{Cost of Attendance} - \text{Expected Family Contribution} = \text{Financial Need}$$

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 most students will likely fall short of meeting their 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 2017- 2018 school year range from \$596 to \$5,920 for the year. Students' EFCs will determine whether or not they are eligible and how much they will receive. If students are eligible, they will be notified of the full-time award amount, but the amount actually paid will depend on whether they are enrolled full-time or part-time, and whether they attend 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, students must be North Carolina residents for tuition purposes and enrolled at least half-time (6 credit hours per semester). Students' EFCs will determine whether or not they are eligible and how much they will receive.
- The North Carolina Education Lottery Scholarship (ELS) is a need-based scholarship, and students' EFCs will determine whether or not they are eligible and how much they will receive. Students must be North Carolina residents for tuition purposes, and be enrolled at least half-time (6 credit hours per semester). Filing the FAFSA will submit students' 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 students may borrow will be determined by a number of factors, including whether they are first-year or second-year students, whether they are 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, employers and churches, and to research other national scholarships through reputable organizations and web sites. A number of scholarships are offered through the SCC Foundation and other private donors each year. Currently, the Foundation has 26 endowed scholarships and 17 annual scholarships that are awarded each year. The most current list of scholarships administered through SCC and the filing instructions and deadlines can be found on the Scholarship page of the SCC website.

SCC Foundation Student Emergency Fund was created to assist SCC students who encounter an unforeseen financial emergency which would otherwise prevent them from continuing their education at SCC. These funds are not intended to be used for routine expenses or as a consistent supplement to a student's education funding sources. This funding is only available during the semester the student is enrolled and the emergency occurs, and requests must be urgent in nature. Students must contact an SCC faculty or staff member regarding their situation, and the employee will contact the Foundation to request an application.

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 Innovation and Opportunity Act (WIOA) is a federally funded program that provides financial assistance to income-eligible persons enrolled in an approved curriculum. The program is usually administered through the NC Works Career Centers in the student's county of residence, although this may vary by county.
- 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 Enrollment Center 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 Free Application for Federal Student Aid (FAFSA). You only need to submit the FAFSA once for each academic year.

1. File the FAFSA

- Complete a FAFSA at www.fafsa.ed.gov and be sure to use the IRS Data Retrieval, if eligible, to import tax data to the FAFSA.
- Be sure you've submitted the FAFSA with SCC's federal School Code, 008466.

FAFSA Deadlines: The FAFSA opens October 1 each year for the following year's Fall term. SCC has set Priority Deadlines to ensure that students file in time to allow processing and awarding before the start of each semester. Students are encouraged to file their FAFSA as early as possible and not wait for these deadlines.

May 1 - students starting the next Fall

September 30 - students starting the next Spring

February 15 - students starting the next Summer

FAFSAs filed after these deadlines WILL be processed as soon as possible but eligible students may not have time to be awarded until after the semester has begun.

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 Admissions Office will send you an acceptance letter with your SCC student ID number.
- Be sure you have selected a program of study that is eligible for financial aid. Each program's eligibility for aid is identified on the SCC website.

3. Review your Student Aid Report (SAR)

- Read emails from the Department of Education, and follow link to view SAR. Read all comments at the end of the SAR.
- 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 emails from SCC Financial Aid Office, or go to MySCC/Web Advisor 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 toward completing a degree or approved program. Progress will

be monitored at the end of each semester at SCC. Results are measured cumulatively, so if students have attended SCC in the past, their transcript will be evaluated for satisfactory academic progress if they return to SCC and apply for financial aid, even if they have 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 67% of the courses they have attempted on a cumulative basis.

If students are not making Satisfactory Academic Progress, they will be notified and placed on Financial Aid Warning for the next semester they are in attendance so that they will have an opportunity to regain Satisfactory Academic Progress. They will receive any financial aid for which they are eligible during this one Financial Aid Warning term. At the conclusion of the Financial Aid Warning term, if they are not making Satisfactory Academic Progress, all federal and state aid will be suspended, until they have completed enough additional courses without financial aid to reach the required standards.

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 and the appeal form is available from the SCC Financial Aid Office. Appeals should be based on circumstances such as a serious illness or injury, a serious illness or death of an immediate family member, or other special circumstances that prevented students from attending or being successful in their classes. Students may also file an appeal due to 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 students completely withdraw from all classes or stop attending all classes and have received a Pell Grant, a Federal Supplemental Educational Opportunity Grant, a Federal Direct Loan or a North Carolina Community College Grant or North Carolina Education Lottery Scholarship for that semester, the Financial Aid Office must determine if those funds were earned. Students earn their state aid once they have attended beyond the 35% date of the semester, and their federal aid once they have attended beyond the 60% date of the semester. If more funds were disbursed than earned, students must repay a portion of the difference. The SCC Financial Aid Office will determine the amount students must repay the US Department of Education (ED) and the amount SCC must repay ED or the state of North Carolina. If SCC is required to repay funds because of the withdrawal, students will be expected to repay SCC. Students 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 students owe funds to ED, they will be given 45 days to repay the funds or make satisfactory repayment arrangements with ED. After that time, students will lose federal financial aid eligibility. In addition, if students owe funds to SCC, they will not be permitted to reenroll at SCC or request a transcript until those funds have been repaid.

If students stop attending classes, but do not initiate the withdrawal procedure, they may be administratively withdrawn from class by their instructor, according to the college's attendance policy for students.

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 the student, 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 cannot be appealed to the U.S. Department of Education.

How to Contact the Financial Aid Office

Location: Jackson Campus, Balsam Center

Telephone: 828.339.4438 • 800.447.4091

Fax: 828.339.4651 • Attn: Financial Aid

Address: 447 College Drive, Sylva, N.C. 28779

Webpage: www.southwesterncc.edu/financial-aid

Email: financialaid@southwesterncc.edu

STUDENT LIFE

- 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 Rights
- Student Right-to-Know Information
- Student Support Services
- Support Services for Students with Disabilities
- Tobacco Use
- Tutoring

AMBASSADORS

This prestigious student program was established to serve the SCC Foundation, President's Office and the College in exciting ways as students host and represent 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; and hone leadership skills. Members go through an application and interview process. Membership drive begins early in spring semester.

BOOKSTORE

New and used textbooks as well as school supplies are available at Jackson and Macon campus locations. Our bookstores are located on the first floor of the Burrell Building at the Jackson campus and on the main floor at the Macon campus.

SCC maintains a contract with Follett Higher Education Group to operate the bookstore. Regular bookstore hours are posted each semester at the bookstore entrances, as well as on the bookstore website www.theswccshop.com. Telephone: 828.339.4222

CAREER SERVICES

Career Services will partner with your faculty and programs across SCC to help you achieve success in your journey through the PEAK program. We will help you gain the **P**rofessional **E**xploration and **K**nowledge required to make strong, informed decisions and plan your pathways toward academic, occupational, and career goals.

Career Services offers all students with both in-person services and online tools to explore careers, identify academic pathways to achieve their goals, and become successfully employed contributors to the regional community and economy. Our professional career counselors will help you identify goals, develop a plan to gain experience and work-ready skills, build a resume, write letters of application, and practice interviewing. Our online tools will help you define your interests, research careers, practice skills and look for jobs.

Whether you are new to SCC or about to transfer or graduate, Career Services is here to help. Take advantage of our many events and services, most of which are free and tailored to your needs:

1. The SCC Job Board (full and part-time jobs posted for the region and beyond).
2. Resume and cover letter critiquing.
3. Career counseling and career decision-making guidance.
4. Career Seminars and Job Fair.
5. Practice interviewing and sharpen your skills using online mock interview software.
6. Career Coach is an online, interactive tool that combines self-assessment, major and career exploration, extensive data about real jobs, and even job listings.
7. Use Google Hangouts to meet online with a career counselor to discuss any of these services or tasks!

How to Contact Career Services

Location: Balsam Center, 1st Floor

Telephone: 828.339.4212

Webpage: www.southwesterncc.edu/career-center



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 Students, 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:

- BBC@SCC
- Car Club
- Ceramics Club
- Culinary Arts Club
- Electronics Club
- Epsilon Sigma Pi EMS Professional Society
- Health Information Technology Club
- Human Services Club
- Latent Image Club
- Medical Assisting Club
- Nursing Club
- Nursing Assistant Club
- Outdoor Leadership Club
- PTA Club
- Respiratory Therapy Technology Club
- Sonography Club
- Spanish Club – Jackson Campus
- Spanish Club – Macon Campus
- STEM Club
- Student Occupational Therapy Association (SOTA) Club
- Student Support Services Garden Club
- Veterans 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 SCC *Student Handbook* and are available in Student Services.

Title IX of the Education Amendments of 1972:

Southwestern is committed to providing primary training and ongoing awareness campaigns to educate our learning community regarding Title IX, Clery Act and VAWA. A comprehensive list of college efforts can be found at www.southwesterncc.edu/sexual-harassment-and-title-ix.

HOLT LIBRARY

The Holt Library on the Jackson Campus is an 11,000 sq. ft. facility that houses professional staff, a research collection, 26 computer lab workstations, snack bar, instruction/conference room, 2 study rooms, and other College offices. Internet access and the Microsoft Office suite are available on the Library's computers, with one black/white printer. The Library has open WiFi access.

- Access to Research Sources: Students, faculty and staff can login to "MySCC" page, then select "Library" tab, on or off campus. This portal offers complete access to the online card catalog, digital research sources, database passwords, topical research guides, and user information.

- Community residents may search the online catalog and access basic information on the Library's open-access website, www.southwesterncc.edu/library. Resident borrower cards are available.
- Library Cards: Students and employees must bring in their SCC photo ID card to borrow materials.
- Library Catalog and Circulating Print Collection: The CCLINC Online Catalog indexes Library print collections by title, author, subject, or keyword. SCC holds over 30,000 hard-copy books and audiovisual resources that directly support academic programs, and 140 hard-copy academic journal and magazine titles. Two million books are available by mail through 50 Community Colleges of NC, all accessible in this CCLINC Catalog system and selected to support academic programs of study.
- Special Collections: Special collections include Reference books, Fiction books, DVD movies, and Children's books.
- Reserve Collection: The faculty may place course-specific materials in this area, located behind the Information Desk. Library staff will assist students to access and utilize Reserve materials.
- NC LIVE: To guarantee access to scholarly research sources for students' assignments, NC LIVE provides a searchable index to digital full-text articles from thousands of print publications, including peer reviewed academic journals, magazine articles, national and local newspapers, e-books, and reference sources. Off-campus user access is simple: Login to MySCC and click the Library tab.
- Interlibrary Loan Services: The SCC Library is a member of the CCLINC consortium. Users may borrow books from other NC community college libraries, or from nationwide libraries in Worldcat.org, by contacting our Library staff. Borrowers need a Library account in good standing.
- Research Instruction: The Librarian teaches Bibliographic Instruction workshops on information literacy and use of CCLINC Catalog and various research databases. Faculty members may contact the Librarian to request a customized workshop for a specific topic. Workshops are held at Jackson campus, Macon or Swain centers. All students receive a basic online library course in Blackboard.
- Returning Materials: All library materials must be returned and accounts cleared of fines before students are allowed to register, graduate, or receive a transcript.
- Library Hours: Monday – Thursday (8 a.m. to 8 p.m.); Friday (8 a.m. to 3 p.m.) when SCC classes are in session. Library hours are determined by the College academic calendar and may vary during student breaks and holidays.

LEARNING ASSISTANCE CENTER

Jackson Campus LAC

The Jackson Learning Assistance Center (LAC) is a professionally staffed facility offering skills-based tutoring and monitored exam proctoring. Students are encouraged to study in the LAC and take advantage of almost 45 hours per week of assistance from learning consultants. The LAC also provides a modern facility, the Tutoring Room, for the College's nationally certified Tutor Program.

The LAC area features a 16-station computer lab and printer as well as four enclosed study carrels with computers, which also present Zoom Text and Jaws, for individual study and tutoring. The LAC Testing Room, which is a certified Pearson VUE Testing Center as well, has 20 computers, one which also features Zoom Text and Jaws.

LAC services are available free of charge to all SCC students and instructors, as well as community members. Individual tours of the LAC are available on a drop-in basis. Most services are provided on a drop-in basis to ensure that visitors are able to obtain the help they need at the times that are most convenient for them. An assistance-by-subject schedule

is posted on campus bulletin boards and an LAC webpage (www.southwesterncc.edu/learning-assistance-center/jackson-lac-operating-hours) at the beginning of each semester and summer session. Learning consultants present on the LAC and online-tutoring services in classrooms; instructors may call 339.4325 or click on the LAC/Online Tutoring In-Class Presentation Request link (www.southwesterncc.edu/learning-assistance-center/lac-faculty-resources) to schedule presentations. Instructors are invited to use the LAC's exam-proctoring service for the occasional makeup exam; the proctoring service fully supports online and hybrid classes.

The LAC is open from 8 a.m.-6 p.m., Monday through Thursday, and 8 a.m.-noon, Friday, during regular semesters. It is closed during fall and spring breaks as well as holidays; any unusual closings are posted at the LAC entrance and to the LAC main webpage; summer hours vary. For additional information, contact the LAC Coordinator at 339.4325, stop by Oaks Hall 101, or explore the LAC main webpage: www.southwesterncc.edu/lac-learning-assistance-center

Free online tutoring is available through Blackboard. For more information, contact the Online Tutoring Coordinator at 339.4325 or visit www.southwesterncc.edu/learning-assistance-center/online-tutoring

Macon Campus LAC

Located in Room 230 on the upper level of the Groves Center Building, the Macon Learning Assistance Center (LAC) is a 12-station computer lab with additional laptops for use in the LAC. Adjacent classrooms also are utilized by the LAC when classes are not in session.

The LAC is staffed with qualified, knowledgeable learning consultants who help students with their coursework. Using skills-based tutoring, LAC Consultants provide walk-in assistance and encourage critical thinking, effective study habits, and a positive attitude toward learning. The LAC also offers exam-proctoring; testing computers are equipped with Zoom Text and Jaws to accommodate students with disabilities. Additionally, the Macon LAC supports SCC's Tutor Program by providing space for tutors and students to meet.

During fall and spring semesters, the LAC is staffed 8 a.m.-6 p.m., Monday-Thursday, and 8 a.m.-noon, Friday; summer hours vary. Any changes to the schedule are posted on this webpage: www.southwesterncc.edu/learning-assistance-center/macon-lac-operating-hours

For additional information, please contact the Macon LAC Coordinator at 828.306.7028, or stop by Room 230.

STUDENT IDENTIFICATION/LIBRARY CARDS

A student identification/library card is available to all students for a \$1 charge for new cards and a \$5 charge for replacement cards. The ID card displays the student's major and assigned ID number and is used 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, 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 the Dean of Students 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*. Students are responsible for obtaining a copy of the *Handbook* and becoming familiar with these policies.

POLICY	REFERS TO
6.03.041 Drug-Free Policy	Establishes SCC as a Drug-Free Environment and the penalties for violating the policy.
6.04.05 Student Clubs & Organizations	Guidelines and requirements governing student clubs.
6.04.07 Student Records	FERPA rights compliance, release of records, records inspection and correction, directory information.
6.03.02 Standards of Student Conduct	Defines students' standards of conduct.
6.03.02.01 Discipline and Appeal Procedure for Academic Related Violations	Defines the Discipline and Appeals process for academic violations.
6.03.02.02 Discipline and Appeal Procedure for Non-Academic Related Violations	Defines the discipline and appeals process for non-academic violations.
6.03.03 Discrimination and Unlawful Harassment	Describes SCC's process for managing Title IX violations.

STUDENT RIGHTS

Academic institutions exist for the transmission of knowledge, the pursuit of truth, and the development of students who promote the well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of this academic community, students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for explanation and truth. Freedom to teach and freedom to learn are inseparable functions of academic conditions in the classroom, on the campus, and in the community. All should exercise their freedom with responsibility and be mindful of the rights and protections entitled to them by the policies and procedures at SCC and the laws of the community in which SCC resides. Student Rights Students are free to pursue their educational goals. Appropriate opportunities for learning in the classroom and on the campus shall be provided by the College. Students have the right to have their performance evaluated solely on an academic basis as defined by the course syllabus, not on opinions or conduct matters unrelated to academic standards. Students have the right to freedom of expression, inquiry, and assembly without restraint or censorship subject to reasonable and non-discriminatory rules and regulations regarding time, place and manner. Students have the right to form clubs, as defined through Student Life, to show solidarity to an academic program, societal issue or personal cause. Students have the right to safeguard and protect their official college record, as defined by the Family Educational Rights and Privacy Act (FERPA) of 1974. Students and former students have the right to review their official records and to request a hearing if they want to challenge the content of their record. All rights and privileges guaranteed to every citizen by the Constitution of the United States and by the State of North Carolina shall not be denied to any student. Should a student violate a College policy, College discipline will be initiated when the presence of the student on campus will (or has) disrupt the educational process. Students have the right to due process during these situations. Due process procedures are established to guarantee a student accused of a Standards of Student Conduct Violation (academic or non-academic) the right to a hearing, a presentation of charges, evidence of charges, the right to present evidence, the right to have a witness on one's behalf, the right to hear witness on behalf of the accuser, and the right to an appeal. If a student violates State or Federal law and the violation adversely impacts the College's pursuit of its recognized educational objectives, the College will enforce its own disciplinary sanctions, in addition to penalties incurred by legal authorities, to maintain a safe and orderly academic environment.

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.

STUDENT SUPPORT SERVICES

SSS is funded with a Title IV education grant which provides over \$1 million to promote graduation and transfer rates among eligible participants. This grant assists students in need of academic support so they may achieve their academic goal of graduation and/or transfer. To qualify for Student Support Services, students must:

1. Be a first time post-secondary student;
2. Have minimum required placement test scores;
3. Be a first-generation college student OR meet income guidelines OR have a documented ADA disability;
4. Have a need for academic support and a willingness to use program services.

Program services include: academic co-advising, financial literacy/scholarship information, tutoring, supplemental grant aid support, career counseling, academic and personal counseling, volunteer opportunities, referral to community services and cultural enrichment programs. Services also include 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 four 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 information visit www.southwesterncc.edu/sss; contact the Student Support Services office at 828.339.4229 or 800.447.4091, ext. 4229; or stop by Student Support Services located on the lower level of Oaks Hall.

SUPPORT SERVICES FOR STUDENTS WITH DISABILITIES

Southwestern Community College is committed to providing full and equal access for all qualified students. The Disability Services Coordinator offers appropriate supports to reduce physical, situational, and attitudinal barriers while promoting independence and self-advocacy for students with disabilities.

Services are designed to level the playing field, promote retention, and support academic success. Accommodations 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 (such as extended time or reduced distraction testing room, or oral exams); note-taker; reader; scribe; recorders; magnifier screens; ergonomic chairs/tools; video captioning; room relocation; sign-language interpreters; or assistive technology.

It all begins with a conversation. The student must self-identify to the Disability Services Coordinator, participate in an intake interview, and work collaboratively with the Coordinator to create the ESP. Additional support documentation may be requested to augment understanding of the disability, functional limitations, and requested accommodations. Information obtained through this process is regarded in a confidential manner as outlined in the Family Rights and Privacy Act of 1974.

Accommodations can be requested at any time in the semester. However, some accommodations may take up to six weeks to put in place, so early contact is important.

How to Contact the Disability Services Office

Location: G-15, Oaks Hall (lower level)

Phone: 828.339.4243 • 800.447.4091 ext. 4243

Webpage: www.southwesterncc.edu/disability_services

TOBACCO USE

All campuses are tobacco-free environments. 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

The Tutor Program at SCC is an academic support system designed to help curriculum students achieve success by providing high quality tutorial assistance to meet their academic needs. Tutoring is available at no cost to students and is provided in one-on-one or small group sessions. Highly qualified and trained tutors assist students with course content, provide a safe, engaging environment, and promote student achievement and academic excellence. SCC's Tutor Program is certified at Levels I and II through the College Reading and Learning Association's International Tutor Training Program Certification (ITTPC).

College and Perkins Eligible Tutoring

Provides tutoring for students enrolled in curriculum courses at Southwestern Community College. Tutoring sessions are usually in small groups, but can also be individual. SCC students may receive up to four hours of tutoring each week.

Student Support Services Tutoring

Tutoring is available for students who are currently enrolled in the Student Support Services Program (SSS) through funds provided by the Title IV Grant. The goal is to provide one-on-one or small group assistance. SSS students may receive up to five hours of tutoring each week.

Applications to request a tutor are available in the Student Support Services office in Oaks Hall, at the Jackson or Macon Campus LAC, or online at www.southwesterncc.edu/tutor-program

EDUCATIONAL OPPORTUNITIES

- General Information
- Admission Eligibility
- Cost
- Course Repetition
- Adult Basic Skills, High School Equivalency (GED® / HiSET and Adult High School)
- Basic Skills Plus Program
- English Language / Civics Education
- General Education Development (GED® / HiSET) Testing
- Job and Career Preparation (HRD)

GENERAL INFORMATION

The purpose of Educational Opportunities programs is to assist adults in obtaining the knowledge and skills necessary for work, further education, family self-sufficiency and community involvement.

Classes are flexible and are offered in a variety of formats to meet the needs of varying levels of ability, schedules and work habits. Instructional methods and materials appropriate for adults are used to help promote more meaningful learning experiences. Individualized instruction, small classes, multiple class locations and times make these classes student friendly. Classes are offered throughout the year at most college locations.

Specialized classes are offered at various locations in the service area. There is no fee for registration or for instructional materials. To enroll, call 800.447.4091, ext. 4272 or for class information in Swain County and Cherokee call 828.366.2002, for Jackson County call 828.339.4262, and for Macon County call 828.306.7020.

ADMISSION ELIGIBILITY

Admission is open to individuals who are 18 years or older and who are not enrolled in public school. Students who are 16 or 17 years old and no longer enrolled in the public school system are eligible after the completion of an Underage Release Form. This form may be obtained from www.southwesterncc.edu/educational-opportunities/adult-basic-education

COST

There is no registration fee for classes in the following program areas: Adult Basic Education (ABE), High School Equivalency (HSE) including Adult High School (AHS) and General Education Development (GED®/HiSET) preparation, English Language/Civics Education and Compensatory Education (CED). The Job and Career Preparation (HRD) classes are offered at no cost to unemployed or underemployed students and community members.

COURSE REPETITION

Students may enroll in most Educational Opportunities courses as many times as necessary to accomplish their individual educational/training goals, provided they continue to show progress, do not prohibit others from participation, and do not violate policies of the North Carolina Community College System.

ADULT BASIC SKILLS, HIGH SCHOOL EQUIVALENCY (GED® / HiSET and ADULT HIGH SCHOOL)

Classes are offered on all levels from beginning reading and mathematics to preparation for high school equivalency tests including the GED® and the college placement tests. Adult Basic Education (ABE) classes are for adults who need instruction or tutoring in basic reading, writing, language, and/or math skills. The High School Equivalency (HSE) classes are for adults who are preparing for tests such as the GED® / HiSET or are completing high school credits to earn an Adult High School Diploma from Southwestern Community College.

The Adult Basic Education (ABE) program also has specialized instruction for adults with intellectual disabilities or with low entry reading levels. Instruction is offered in math, language, health, community living, consumer education and vocational education.

BASIC SKILLS PLUS PROGRAM

Get college and career ready while you earn your high school equivalency or adult high school diploma in 1 of 12 areas.

Basic Skills PLUS is designed for students who have not attained their high school diploma nor finished their high school equivalency. Basic Skills Plus provides workforce

preparation activities and workforce training for a specific occupation to students currently enrolled in an adult high school diploma or high school equivalency program. Structured career pathways (SCC pathways on back) and courses are designed to reduce the amount of time a Basic Skills PLUS student is enrolled in the Basic Skills program and provides students with the skills necessary for successful transition into and completion of postsecondary education or training, or employment. Eligible students have course tuition and some fees waived

Career Pathways include Advanced Manufacturing, Automotive Systems Technology, Business Administration, Certified Nursing Assistant Culinary Arts, Early Childhood Education, Facilities Management, HVAC and Refrigeration, Medical Assisting Technology, Pharmacy Technician, Table Gaming, and Welding.

The Project SEARCH program provides young adults with disabilities an opportunity to have three internships during a school year in a host business. The interns receive classroom instruction in employability skills and independent living skills and then on-the-job experience daily. Each intern receives intensive job coaching which continues for a period of time upon job placement after the internship portion of the program. The goal is for each intern to be placed in permanent employment at the end of the program.

ENGLISH LANGUAGE/CIVICS EDUCATION

The ESL instruction classes are designed for individuals from foreign countries to learn how to speak, read, and write English. The program's focus is for adults who want to learn English language skills to function effectively in an English speaking environment. Civics related curricula enable students to be more successful in their work and their daily lives, as parents and citizens of our community.

Citizenship classes are available to any adult who is eligible to be naturalized. Classes are small, individual instruction is provided, language-learning software is available, and students work at their own pace. Classes are offered throughout the service area.

GENERAL EDUCATION DEVELOPMENT (GED®/HiSET) TESTING

Southwestern Community College is an official Pearson Vue Testing Center offering the new GED® test. The new assessment will continue to provide adults the opportunity to earn a high school credential, but it goes further by measuring career-and college-readiness skills that are the focus of today's curriculum and tomorrow's success. Four content areas—literacy, mathematics, science, and social studies—will measure a foundational core of knowledge and skills that are essential for career and college readiness. The cost of the GED® Test is \$20 and the cost of HiSet Test is \$10 per section.

Individuals receiving a total passing score of 150 on each test are awarded a GED®/HiSET High School Equivalency Certificate by the North Carolina Department of Public Instruction. This certificate may be accepted as an equivalent to a high school diploma when being considered for employment, seeking a job promotion or applying for admission into a college or university.

Preparation: An individual wishing to prepare for the GED®/HiSET Examination should come to SCC for an initial orientation. Depending on the level of preparation necessary, a student may choose to enroll in Adult Basic Education, High School Equivalency, or Developmental Studies. In the event that any single test score is unsatisfactory, a retest may be taken after further study.

Test Sites: Test Sites are located in Swain, Jackson and Macon counties. For additional information call 828.339.4272 or 800.447.4091, ext. 4272, or visit www.southwesterncc.edu.

JOB AND CAREER PREPARATION (HRD)

SCC is committed to increasing employment within our community. The purpose of the Job and Career Preparation (HRD) program is to educate and train people in transition and in the emerging workforce for success in the workplace. HRD provides assessment services, employability training, and career development counseling. Job and Career Preparation not only provides instruction, but also provides the much needed support for unemployed and dislocated workers within the college service area. Job and Career Preparation Core Services are available in Job and Career Preparation Employability Labs. Participants may enroll at any time.

Core Services

Core Services available on an individual and small group basis include: skill assessment, self-assessment, career exploration, resume building, interviewing practice, Career Readiness Certification, job search assistance, and basic computer training for the workplace.

Also available in the Job and Career Preparation Labs are a variety of workshops that focus on improving both personal and professional skills. Topics include: public speaking, problem solving, creative thinking, money management, effective communication, self-assessment, conflict resolution, resume and job application.



Job and Career Preparation Fee Waiver Guidelines

Participants may be eligible for tuition and fee waiver if they meet at least one of the following criteria: unemployed; or received notification of a pending layoff; or working and eligible for the Federal Earned Income Tax Credit (FEIT); or working and earning wages at or below two hundred percent (200%) of the federal poverty guideline.

North Carolina Career Readiness Certification

The Job and Career Preparation program offers preparation classes for the North Carolina Career Readiness Certification examination. The CRC is designed to meet the needs of both employers and job seekers in this transitioning economy. For employers, the CRC offers a reliable means of determining whether a potential employee has the necessary literacy, numeracy and problem solving skills to be "job ready." The CRC is based upon WorkKeys, a nationally recognized, skills assessment tool developed by ACT Inc.

For more information on this program and how to get started contact: Rita Gregory, Educational Opportunities Coordinator, 828.306.7020.

WORKFORCE INNOVATIONS & CONTINUING EDUCATION

- General Information
- Admission Eligibility
- Cost
- Customized Training
- Healthcare Professions Training
- Heritage Arts
- Occupational Training
- Online Programs
- Personal Enrichment
- Pre-Registration/Enrollment
- Professional Licensure and Certification
- Refund Policy
- Small Business Center

GENERAL INFORMATION

Workforce Innovations 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.

Courses offered through Workforce Innovations are designed to prepare students for entry into an occupation, to upgrade the occupational competency of current employees or to work toward self-improvement.

These extension courses may or may not earn academic credits that are recognized in a degree or diploma program; however, a certificate may be 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.....	\$70
25-50 hours.....	\$125
Over 51 hours.....	\$180

Some classes are contracted on a self-supporting basis and fees are based on the cost of the course.

Other Fees: Computer Use and Technology Fee (per Occupational computer class) \$5 per class.

CUSTOMIZED TRAINING

As part our commitment to economic development, Southwestern Community College provides education and training to eligible new and existing industries through the NCWorks Customized Training Program. Training offered through this program is designed to help these businesses remain productive and profitable.

HEALTHCARE PROFESSIONS TRAINING

The college provides training for Nurse Aide I, Nurse Aide II, Geriatric Aide and 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.

Additionally, courses are offered for continuing education credits toward license renewal for a myriad of healthcare disciplines.

HERITAGE ARTS

The Heritage Arts program allows students to experience firsthand the rich legacy of art and craft of Appalachia: Native, folk, and contemporary arts and crafts from the region. Through a combination of studio education, visiting artists, generational instructors, craft business, and experiential learning, students are exposed to a variety of art forms and techniques they can apply to develop their own entrepreneurial crafts practice. The Heritage Arts Program was created in collaboration with the Swain County Blue Ridge National Heritage Committee. Heritage Arts classes and certificate programs, including the Master Potter certificate, are available at the Swain Center.

OCCUPATIONAL TRAINING

Occupational Training programs are specifically designed to prepare individuals for current in-demand jobs in our service area. These programs allow the student to explore their individual interests and train for specific jobs. Programs offered include: Table Gaming, Phlebotomy, Pharmacy Technician, Real Estate, Computer Technician, Electronic Health Records and more.

Please check the continuing education schedule for a list of classes currently being offered at www.southwesterncc.edu/workforce-innovations/occupational-training.

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 or visit www.southwesterncc.edu.

PERSONAL ENRICHMENT

Through this program, SCC conducts single courses 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, communication and languages, computing, digital photography, fitness, journalism, and self-help, plus many more. Many courses are developed based on requests from the community.

PRE-REGISTRATION/ENROLLMENT

Online registration is encouraged for all continuing education courses. The steps for registering using a credit or debit card for payment are as follows:

1. Go to the website: www.southwesterncc.edu
2. Look under the Workforce Innovations block in green on the right side of the page
3. Click Online Registration
4. Do not type in the blanks, or you might limit your search and not find what you are looking for
5. Click Submit (this will present you with a list of classes to peruse)
6. Check the box(es) next to the class(es) you want
7. Scroll to the bottom of the page and click Submit
8. Answer questions and click Submit
9. Follow steps through payment options

If you need to pay with a check or cash, please visit one of our campus locations no later than three business days prior to the start of class date to register and pay.

For more information, call the Workforce Innovations & Continuing Education department at 828.339.4426.

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, Electrical Contractors, Cosmetologists, Independent Auto Dealers, NC Auto Safety and OBD Inspection Mechanics, Notary Public and a myriad of Health and Mental Health Care Providers.

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.

SMALL BUSINESS CENTER

Southwestern Community College's Small Business Center (SBC) is part of a statewide network designed to support the development and growth of small businesses. Millions of Americans choose to pursue the dream of being their own boss. But turning the dream of small business ownership into reality is no easy task. It often requires intensive planning and research, creative problem solving, strong determination to succeed, and the savvy to navigate countless regulatory agencies and resource options.



Your Small Business Center can help. Our experienced counselors and trainers can help take the confusion out of what can seem like an endless list of rules, regulations and red tape. We can show you what it takes to start your business, serve as a sounding board for your ideas and assist you as your business grows. The SBC offers a multi-faceted approach to facilitating business development by providing prospective and current small business owners with a central point of contact for information, education and assistance.

Seminars & Workshops

The Small Business Center hosts a steady schedule of seminars designed to have a positive impact on your bottom line. You can take advantage of these free and high-impact seminars at convenient times designed to fit your busy schedule. Expert presenters are brought to the campus to assist in meeting the training needs of small business owners.

For more information about our program and offerings visit www.ncsbc.net.

PUBLIC SAFETY TRAINING

- Emergency Medical Services Training
- Fire and Rescue Services Training
- Law Enforcement Training

EMERGENCY MEDICAL SERVICES TRAINING

The Public Safety Training EMS Department currently offers classes that introduce new students to the world of emergency medical care through Basic Life Support Education. Completion of the Emergency Medical Responder to and including Advanced Emergency Medical Technician class will prepare the student for examination by the State of North Carolina and National Registry for official certification. Once certified by the state, students will be prepared to fill the role of a basic medical responder to advanced life support with any agency provide those services.

The EMS 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 Advanced EMT or Paramedic 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 various locations and times throughout the year. Please refer to the Public Safety Training webpage for a list of the most currently training being offered and instructions on how to register. Preregistration will ensure your enrollment in training sessions.

FIRE AND RESCUE SERVICES TRAINING

The Public Safety Training Fire/Rescue Department offers various courses in cooperation with individual fire and rescue departments in the service area. Additionally, a Firefighter Academy is offered each year in the Spring, which enables those attending to obtain eligibility for certification as a Firefighter Level II. 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-PSTC offers the nationally-recognized firefighter certification program and the rescue certification program. The training curriculum is based on the most current edition of NFPA 1001 which was adopted by the North Carolina Fire and Rescue Commission in July 1993 and implemented in January 1994.

The Fire and Rescue Training Facility is located adjacent to the Public Safety Training Center. This 4,100 square-foot, three-story live burn building is designated for a variety of training exercises. Both live fire and smoke exercises can be conducted in and on the structure and rescue operations can be simulated throughout the building. SCC-PSTC will coordinate training for firefighters and rescue personnel in the region and will be responsible for the scheduling of this facility.

Classes are offered at various locations and times throughout the year. Please refer to the Public Safety Training webpage for a listing of the most current training and instructions on how to register.

LAW ENFORCEMENT TRAINING

The Public Safety Training Law Enforcement Training Program offers both basic and advanced training in all aspects of law enforcement. SCC-PSTC 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 entry level requirements for certification by the Criminal Justice Commission and/or the Sheriff's Commission.

SCC-PSTC is one of only seven institutions accredited to deliver a basic training program designed to prepare Seasonal Park Rangers to perform law enforcement in areas administered by the National Park Service. Academy hours match the most current

curriculum as established by the National Park Service – Federal Law Enforcement Training Center. 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 400 locations comprised of parks, monuments and other facilities of the Park Service in the contiguous 48 states, Alaska, Hawaii, Puerto Rico, the US Virgin Islands and Guam.

Classes are offered at various locations and times throughout the year. Please refer to the Public Safety Training Center webpage for a listing of the most current training and registration instructions.

Additional training/certification offered at SCC-PSTC include:

- CPR and First Aid
- Detention Officer Certification Course (DOCC)
- EMS Simulation Lab
- General Instructor Certification
- Mandated In-Service Training (Traditional and Online)
- Motorcycle Safety Training
- National Incident Management System (NIMS)
- Standardized Field Sobriety Testing (SFST) Certification
- SWAT Basic and Intermediate
- RADAR/LIDAR Operator and Re-Certification
- Rapid Deployment of Active Shooter
- Tactical Combat Casualty Care (TCCC)
- Telecommunicator Certification Course (TCC)
- Use of Force Simulation Lab
- Wildland Firefighter Academy

Various specialized training courses are created and conducted in the area served by SCC-PSTC based on current needs of agencies served. Visit the Public Safety Training webpage for additional information and schedules of training at www.southwesterncc.edu/pstc.



"Learning comes first at Southwestern Community College. Our long history of success 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 Executive 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 ethical behavior |
| • Demonstrate self-motivation | • Treat the classroom like a job |
| • Not obsess about grades | • Know and follow the SCC student code of conduct |
| • Do their own work | • Use good personal hygiene |
| • Keep an open mind | • Dress appropriately |
| • Meet class deadlines | |

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

The Writing Across the Curriculum program is designed to expand and improve student writing skills in all courses, not limited to English courses. Writing Across the Curriculum initiatives include workshops and learning support for students and professional development for faculty. Writing strategies emphasized by the program include: organizing and evaluating materials for research-based projects; paraphrasing, summarizing, and using direct quotations; citing sources using MLA, APA, and Chicago Style formats; plagiarism prevention; grammar and mechanics; editing and proofreading; and many other topics. Faculty members are the heart of the culture of writing at SCC. For more information, visit www.southwesterncc.edu/wac.



ACADEMIC PROGRAMS OF STUDY

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

Accounting - A25100, D25100, C25100, C25100CP* -----	AAS, Diploma, Certificate
C251001, C251002, C251003 -----	Certificate
Advertising & Graphic Design - A30100 -----	AAS
Air Conditioning, Heating & Refrigeration Technology - D35100 -----	Diploma
C35100, C35100CP* -----	Certificate
Associate in Arts - A10100, A10100EC* -----	AA
Associate in Arts - Career & College Promise - P1012C* -----	Pathway
Associate in Fine Arts in Visual Arts - A10600 -----	AFA
Associate in General Education - A10300 -----	AGE
Associate in Science - A10400, A10400EC* -----	AS
Associate in Science - Career & College Promise - P1042C* -----	Pathway
Automotive Systems Technology - A60160, D60160 -----	AAS, Diploma
C60160B, C60160A, C60160CP* -----	Certificate
Business Administration - A25120, D25120, C25120, C25120CP* ---	AAS, Diploma, Certificate
Business Administration - Electronic Commerce - A25120EC -----	AAS
Business Administration - Entrepreneurship - A25120ET, C25120ET -----	AAS, Certificate
Business Administration - Office Administration - A25370, D25370 -----	AAS, Diploma
C25370, C25370CP* -----	Certificate
Civil Engineering Technology - A40140 -----	AAS
Computer Engineering Technology - A40160 -----	AAS
Cosmetology - A55140, D55140, D55140CP*, C55140, -----	AAS, Diploma, Certificate
Criminal Justice Technology - A55180, C55180CP* -----	AAS, Certificate
Culinary Arts - A55150, C55150, C55150CP* -----	AAS, Certificate
Cyber Crime Technology - A55210 -----	AAS
Early Childhood Education - A55220, C55220, C55220CP* -----	AAS, Certificate
Early Childhood Education Administration - C55850 -----	Certificate
Early Childhood Education Preschool - C55860 -----	Certificate
Electronics Engineering Technology - A40200, C40200CP* -----	AAS, Certificate
Emergency Medical Science - A45340, C45340, C45340CP* -----	AAS, Certificate
Environmental Science Technology - A20140 -----	AAS
Fire Protection Technology - A55240 -----	AAS
Geomatics Engineering Technology - A40420 -----	AAS
Health Information Technology - A45360, C453601 -----	AAS, Certificate
Health Information Technology/Medical Coding - C453602 -----	Certificate
Human Services Technology - A45380, C45380 -----	AAS, Certificate
Human Services Technology/Substance Abuse - A4538E -----	AAS
C4538E, C4538E1 -----	Certificate
Infant/Toddler Care - C55290 -----	Certificate
Information Technology - Mobile Applications Developer - A25590M -----	AAS
C25590M, C25590MC* -----	Certificate
Information Technology - Network Management - A25590N -----	AAS
C25590N, C25590NC*, C25590N2, C25590C2* -----	Certificate
Information Technology - Software & Web Development - A25590SD -----	AAS
C25590SD, C25590DC* -----	Certificate

Information Technology - Support & Services - A25590SS -----	AAS
C2590SS, C25590SC* -----	Certificate
Mechatronics Engineering Technology - A40350, C40350, C40350CP*, C403501, C403502, C403503 -----	AAS, Certificate
Medical Assisting - A45400, C45400, C45400CP* -----	AAS
Medical Laboratory Technology - A45420 -----	AAS
Medical Office Administration - A25310, D25310 -----	AAS, Diploma
Medical Sonography - A45440 -----	AAS
Nurse Aide - C45840, C45840CP* -----	Certificate
Nursing - Associate Degree - A45110 -----	AAS
Nursing, WNC RIBN - A45110RB -----	
Occupational Education Associate - A55320, D55320, C55320 --	AAS, Diploma, Certificate
Occupational Therapy Assistant - A45500 -----	AAS
Outdoor Leadership - A55330, C55330 -----	AAS, Certificate
Outdoor Leadership - Wilderness Therapy - C553301 -----	Certificate
Outdoor Leadership - Wilderness Emergency Medicine - C553302 -----	Certificate
Paralegal Technology - A25380 -----	AAS
Phlebotomy - C45600 -----	Certificate
Physical Therapist Assistant - A45620 -----	AAS
Radiography - A45700 -----	AAS
Computed Tomography Imaging - C45200 -----	Certificate
Respiratory Therapy - A45720 -----	AAS
Telecommunications and Networking Engineering Technology - A40400 -----	AAS
Therapeutic & Diagnostic Services Diplomas -----	Diploma
Emergency Medical Science - D45910, D45910CP* -----	Diploma
Medical Assisting - D45920, D45920CP* -----	Diploma
Nurse Aide - D45970 -----	Diploma
Phlebotomy - D45950 -----	Diploma
Therapeutic Massage - D45960 -----	Diploma
Therapeutic Massage - A45750, D45750 -----	AAS, Diploma
Trades:	
Carpentry - D35180, C35180* -----	Diploma, Certificate
Welding - C50420, C50420CP* -----	Certificate

* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 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, 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	Writing and Inquiry	3	0	0	3
Choose one of the following:						
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
Totals			14-15	6	0	17-18

SPRING SEMESTER 1

ACC	121	Principles of Managerial Accounting	3	2	0	4
CTS	130	Spreadsheet	2	2	0	3
ENG	114	Professional Research and Reporting	3	0	0	3
Choose one of the following:						
ACC	140	Payroll Accounting	1	2	0	2
ACC	150	Accounting Software Applications	1	2	0	2
Choose one of the following:						
ECO	151	Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
Totals			12	6	0	15

SUMMER SEMESTER

BUS	230	Small Business Management	3	0	0	3
Choose one of the following:						
HUM	115	Critical Thinking	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
Choose one of the following:						
ECO	252	Principles of Macroeconomics	3	0	0	3
PSY	150	General Psychology	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
BUS	115	Business Law I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
Choose one of the following:						
ACC	130	Business Income Taxes	2	2	0	3
ACC	180	Practices in Bookkeeping	3	0	0	3
ACC	240	Gov. & Not-for-Profit Accounting	3	0	0	3
Totals			13-14	4	0	16

SPRING SEMESTER 2

ACC	225	Cost Accounting	3	0	0	3
ACC	227	Practices in Accounting	3	0	0	3
BUS	270	Professional Development	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
		Totals	12	0	0	12

Total Semester Hour Credits: 69-70

DIPLOMA (AAS) - D25100

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
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	Writing and Inquiry	3	0	0	3
		Totals	12	4	0	14

SPRING SEMESTER 1

ACC	121	Principles of Managerial Accounting	3	2	0	4
ACC	150	Accounting Software Applications	1	2	0	2
<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	3	0	0	3
		Totals	7	4	0	9

FALL SEMESTER 2

ACC	129	Individual Income Taxes	2	2	0	3
ACC	180	Practices in Bookkeeping	3	0	0	3
ACC	220	Intermediate Accounting I	3	2	0	4
BUS	115	Business Law I	3	0	0	3
		Totals	11	4	0	13

SPRING SEMESTER 2

ACC	225	Cost Accounting	3	0	0	3
ACC	227	Practices in Accounting	3	0	0	3
		Totals	6	0	0	6

Total Semester Hour Credits: 42

CERTIFICATE - C25100 & C25100CP* - Accounting

<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 the Career & College Promise page in this catalog for additional information.

CERTIFICATE - C251001 - Bookkeeping

<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	150	Accounting Software Applications	1	2	0	2
ACC	180	Practices in Bookkeeping	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
		Totals	12	8	0	16

Total Semester Hour Credits: 16

CERTIFICATE - C251002 - Payroll Accounting

<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 Tax	2	2	0	3
ACC	140	Payroll Accounting	1	2	0	2
ACC	150	Accounting Software Applications	1	2	0	2
CIS	110	Introduction to Computers	2	2	0	3
		Totals	12	12	0	18

Total Semester Hour Credits: 18

CERTIFICATE - C251003 - Tax Accounting

<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 Tax	2	2	0	3
ACC	130	Business Income Tax	2	2	0	3
CIS	110	Introduction to Computers	2	2	0	3
		Totals	12	10	0	17

Total Semester Hour Credits: 17

FACULTY

Program Coordinator

828.339.4616 or 800.447.4091, ext. 4616

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	Writing and Inquiry	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

Choose one of the following:

HUM	115	Critical Thinking	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
		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	1	3	0	2
		Totals	9	13	0	15

SUMMER SEMESTER

GRD	167	Photographic Imaging I	1	4	0	3
PSY	150	General Psychology	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	6	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	1	3	0	2

Choose one of the following:

ART	264	Digital Photography I	1	4	0	3
GRD	168	Photographic Imaging II	1	4	0	3
		Totals	8	22	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

Choose one of the following:

MKT	123	Fundamentals of Selling	3	0	0	3
PHO	222	Video Production	2	2	0	3

Choose one of the following:

WBL	111	Work-Based Learning I	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 Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at:

www.southwesterncc.edu/program/air-conditioning-heating-refrigeration-diploma

REQUIRED COURSES:

Prefix	Number	Title	Class	Lab	Clinical	Credit
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	Writing and Inquiry	3	0	0	3
MAT	110	Mathematical Measurement	2	2	0	3
<u>Choose one of the following:</u>						
ACA	111	College Student Success	1	0	0	1
ACA	122	College Transfer Success	0	2	0	1
Totals			19-20	26-28	3	34

CHOOSE 6 CREDITS FROM THE FOLLOWING COURSES (cannot exceed 4 WBL hours):

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
ELC	112	DC/AC Electricity	3	6	0	5
WBL	111	Work-Based Learning I	0	0	10	1
WBL	112	Work-Based Learning I	0	0	20	2
WBL	114	Work-Based Learning I	0	0	40	4
WLD	110	Cutting Processes	1	3	0	2
WLD	111	Oxy-Fuel Welding	1	3	0	2

Total Semester Hour Credits: 40

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	2	2	0	3
		Totals	5	8	3	10

SPRING SEMESTER 1

AHR	112	Heating Technology	2	4	0	4
AHR	113	Comfort Cooling	2	4	0	4
		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 18 for additional information.

ADVISOR

Dean of Career Technologies, Program Advisor

828.339.4204 or 800.447.4091, ext. 4204

Through an agreement with the University of North Carolina system, SCC students can earn up to 60 hours worth of credit that will transfer to any public university and many private colleges in the state. Completion of the Associate in Arts degree ensures students' transfer with junior status into most majors. 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 should consult closely with the receiving institutions for course-by-course equivalencies.

ASSOCIATE IN ARTS (AA) - A10100 & A10100EC*

COURSE AND HOUR REQUIREMENTS

English/Composition.....	6
Humanities/Fine Arts.....	12
Social/Behavioral Science.....	12
Natural Science.....	8
Mathematics.....	7
Other Required Hours.....	15
TOTAL.....	60

* This degree is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

ENGLISH/COMPOSITION – 6 credit hours required

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Writing and Inquiry	3	0	0	3
ENG	112	Writing & Research in the Disciplines	3	0	0	3

HUMANITIES/FINE ARTS/COMMUNICATIONS – Select 9 credit hours from at least two different disciplines:

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	231	Public Speaking	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
MUS	110	Music Appreciation	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3

Select 3 credit hours from the following:

GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	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	160	Introduction to Film	2	2	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	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 – Select 9 credit hours from at least two different disciplines:

ECO	251	Prin. of Microeconomics	3	0	0	3
ECO	252	Prin. of Macroeconomics	3	0	0	3
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
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

Select 3 credit hours from the following:

ANT	210	General Anthropology	3	0	0	3
ANT	220	Cultural Anthropology	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	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	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3

NATURAL SCIENCE – Select 4 credit hours from the following:

AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
BIO	110*	Principles of Biology	3	3	0	4
BIO	111*	General Biology I	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1

Select 4 credit hours from the following:

AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
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	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

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

MATHEMATICS – 3 credit hours

MAT	143	Quantitative Literacy	2	2	0	3
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Select 4 credit hours from the following:

MAT	152	Statistical Methods	3	2	0	4
MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	271	Calculus I	3	2	0	4

OTHER REQUIRED HOURS

<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	0	2	0	1

Select 14 additional hours of transferrable courses focused on future major and closely related areas.

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
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	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	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
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
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
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

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
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
CSC	151	JAVA Programming	2	3	0	3
CTS	115	Info Sys Business Concepts	3	0	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	4	0	0	4
EGR	150	Intro to Engineering	1	2	0	2
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	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
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
GER	181	German Lab I	0	2	0	1
GER	182	German Lab II	0	2	0	1
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	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	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	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	160	Introduction to Film	2	2	0	3
HUM	230	Leadership Development	3	0	0	3
MAT	141	Mathematical Concepts I	3	0	0	3
MAT	142	Mathematical Concepts II	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	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
MAT	280	Linear Algebra	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>
MUS	110	Music Appreciation	3	0	0	3
MUS	112	Introduction to Jazz	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	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	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	171*	Nature Hiking	0	2	0	1
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	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	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
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
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
SPA	221	Spanish Conversation	3	0	0	3

* Limited to 2 elective credit hours

Students should check physical education/health and foreign language requirements at the university they plan to attend.

TOTAL SEMESTER HOURS: 60

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.

FACULTY: To contact the following instructors, call 828.339.4000 in Sylva or 800.447.4091 outside the area then dial their respective extensions.

Barbara Putman, Program Coordinator, ext. 4496
bputman@southwesterncc.edu

Susan Cain, ext. 4226
s_cain@southwesterncc.edu

Alison Carter, ext. 4205
a_carter@southwesterncc.edu

Matt Cass, ext. 4384
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Tracy Chapple, ext. 4310
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The CCP College Transfer pathway leading to the Associate in Arts is designed for high school juniors and seniors who wish to begin study toward the Associate in Arts degree and a baccalaureate degree in a non-STEM major.

ASSOCIATE IN ARTS - CAREER & COLLEGE PROMISE - P1012C

ENGLISH/COMPOSITION – 6 credit hours required

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Writing & Inquiry	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3

HUMANITIES/FINE ARTS/COMMUNICATIONS – Select 9 credit hours from at least two different disciplines. One communication course is required.

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	231	Public Speaking	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
MUS	110	Music Appreciation	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3

SOCIAL/BEHAVIORAL SCIENCES – Select 9 credit hours from at least two different disciplines:

ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
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

MATHEMATICS – Select one course from the following:

MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
MAT	171	Precalculus Algebra	3	2	0	4

NATURAL SCIENCES – Select 4 credit hours from the following:

BIO	110*	Principles of Biology	3	3	0	4
BIO	111*	General Biology I	3	3	3	4
CHM	151	General Chemistry I	3	3	0	4
PHY	110	Conceptual Physics <i>and</i>	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1

* Students may not take both BIO 110 and BIO 111.

OTHER REQUIRED HOURS

ACA	122	College Transfer Success	0	2	0	1
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Total Semester Hours Credit (SHC) in Program: 32-39*

***OPTIONAL GENERAL EDUCATION HOURS (0-6 SHC)**

Students may take up to 6 SHC of foreign language courses designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

High school students in the Associate in Arts CCP College Transfer Pathway must complete the entire pathway before taking additional courses in the Associate in Arts degree.

* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

ADVISOR

College Access Coordinator

ccp@southwesterncc.edu

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 in 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 public universities 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. It is advised that 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 advisors to assure course equivalencies and track their academic progress.

ASSOCIATE IN FINE ARTS IN VISUAL ARTS DEGREE (AFA) - A10600

ENGLISH/COMPOSITION – 6 Credit Hours

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Writing and Inquiry	3	0	0	3
ENG	112	Writing & Research in the Disciplines	3	0	0	3

HUMANITIES/FINE ARTS – 6 credit hours. Choose two courses from two different disciplines.

COM	231	Public Speaking	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3

SOCIAL/BEHAVIORAL SCIENCES – 6 credit hours. Choose two courses from two different disciplines.

ECO	251	Prin. of Microeconomics	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3

NATURAL SCIENCE – 4 credit hours from the following:

AST	111	Descriptive Astronomy with	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1

MATHEMATICS – 3-4 credit hours

MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods	3	2	0	4

OTHER REQUIRED HOURS - 20 credit hours

ACA	122	College Transfer Success	0	2	0	1
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	214	Portfolio and Resume	0	2	0	1
ART	288	Studio	0	6	0	3

Select 5 credit hours from the following:

ART	231	Printmaking I	0	6	0	3
ART	232	Printmaking II	0	6	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

Total Semester Hours Credit: 60-61

FACULTY

Brian Kane, Program Coordinator

b_kane@southwesterncc.edu

828.366.2006 or 800.447.4091, ext. 2006

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 – 6 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	Writing and Inquiry	3	0	3
ENG	112	Writing & Research in the Disciplines	3	0	3
ENG	114	Professional Research and Reporting	3	0	3

Humanities/Fine Arts – 3 SHC required for AGE degree

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

***	***	Social Science Elective	3	0	3
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Natural Sciences/Mathematics – 3 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.

Choose one of the following:

ACA	111	College Student Success	1	0	0	1
ACA	122	College Student Success	0	2	0	1

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 many 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, A10400EC *

*This degree is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

ENGLISH/COMPOSITION – 6 credit hours required

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Writing and Inquiry	3	0	0	3
ENG	112	Writing & Research in the Disciplines	3	0	0	3

HUMANITIES/FINE ARTS/COMMUNICATIONS – Select 9 credit hours from at least two different disciplines. One communications course is required.

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	231	Public Speaking	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
MUS	110	Music Appreciation	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3

SOCIAL/BEHAVIORAL SCIENCES – Select 9 credit hours from at least two different disciplines:

ECO	251	Prin. of Microeconomics	3	0	0	3
ECO	252	Prin. of Macroeconomics	3	0	0	3
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
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 – Select 8 credit hours from one sequence:

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
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

MATHEMATICS – Select 4 credit hours from the following:

MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	271	Calculus I	3	2	0	4

Select 4 credit hours from the following:

MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4

OTHER REQUIRED HOURS

ACA	122	College Transfer Success	0	2	0	1
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Select 19 credit hours from the following:

ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	220	Cultural Anthropology	3	0	0	3
AST	111	Descriptive Astronomy with	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
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	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
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
CIS	115	Introduction to Prog. & Logic	2	3	0	3
CSC	134	C++ Programming	2	3	0	3
CSC	139	Visual BASIC Programming	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
EGR	150	Intro to Engineering	1	2	0	2
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
GER	181	German Lab I	0	2	0	1
GER	182	German Lab II	0	2	0	1
HEA	110	Personal Health and Wellness	3	0	0	3
MAT	152	Statistical Methods	3	2	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
MAT	280	Linear Algebra	2	2	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	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	137*	Badminton	0	2	0	1
PED	142*	Lifetime sports	0	2	0	1
PED	143*	Volleyball Beginning	0	2	0	1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
PED	145*	Basketball Beginning	0	2	0	1
PED	171*	Nature Hiking	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
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

* Limited to two elective hours. Students should check physical education requirements at the university they plan to attend.

Total Semester Hours credit in program: 60

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 CCP College Transfer Pathway Leading to the Associate in Science is designed for high school juniors and seniors who wish to begin study toward the Associate in Science degree and a baccalaureate degree in a STEM or technical major.

ASSOCIATE IN SCIENCE - CAREER & COLLEGE PROMISE - P1042C

ENGLISH/COMPOSITION - 6 credit hours required

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Writing & Inquiry	3	0	0	3
ENG	112	Writing & Research in the Disciplines	3	0	0	3

HUMANITIES/FINE ARTS/COMMUNICATIONS – Select 6 credit hours from the following. One communications course is required.

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	231	Public Speaking	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
MUS	110	Music Appreciation	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3

SOCIAL/BEHAVIORAL SCIENCES – Select 6 credit hours from at least two different disciplines:

ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
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

MATHEMATICS – Select 8 credit hours from the following:

MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	271	Calculus I	3	2	0	4

NATURAL SCIENCES – Select 8 credit hours from one sequence:

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
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

OTHER REQUIRED HOURS

ACA	122	College Transfer Success	0	2	0	1
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Total Semester Hours Credit (SHC) in program: 35-41*

***OPTIONAL GENERAL EDUCATION HOURS (0-6 SHC)**

Students may take up to 6 SHC of foreign language courses designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of "C" or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

High school students in the Associate in Sciences CCP College Transfer Pathway must complete the entire pathway before taking additional courses in the Associate in Science degree.

* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

ADVISOR

College Access Coordinator

ccp@southwesterncc.edu

Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.



Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

The Automotive Systems Technology program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. The program includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A60160

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
AUT	151	Brake Systems	2	3	0	3
AUT	151A	Brake Systems Lab	0	3	0	1
TRN	110	Introduction to Automotive	1	2	0	2
TRN	120	Basic Transportation Electricity	4	3	0	5
TRN	120A	Basic Transportation Electricity Lab	0	3	0	1
Totals			8	14	0	13

SPRING SEMESTER 1

AUT	141	Suspension & Steering Systems	2	3	0	3
AUT	141A	Suspension & Steering Lab	0	3	0	1
CIS	111	Basic PC Literacy	1	2	0	2
ENG	111	Writing and Inquiry	3	0	0	3
TRN	145	Advanced Transportation Electronics	2	3	0	3

Choose one of the following:

PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
Totals			11	11	0	15

SUMMER SEMESTER

AUT	181	Engine Performance I	2	3	0	3
TRN	140	Transportation Climate Control	1	2	0	2
TRN	140A	Transportation Climate Control Lab	1	2	0	2
Totals			4	7	0	7

FALL SEMESTER 2

AUT	116	Engine Repair	2	3	0	3
AUT	183	Engine Performance II	2	6	0	4
AUT	231	Manual Transmissions/Axles/Drtrains	2	3	0	3
LDD	112	Introduction to Light-Duty Diesel	2	2	0	3

Choose one of the following:

HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
Totals			11	14	0	16

SPRING SEMESTER 2

AUT	212	Auto Shop Management	3	0	0	3
AUT	221	Automatic Transmissions/Transaxle	2	3	0	3
AUT	221A	Automatic Transmissions/Transaxle Lab0	3	0	0	1
ENG	114	Professional Research & Reporting	3	0	0	3
TRN	130	Intro. to Sustainable Transportation	2	2	0	3

Choose one of the following:

MAT	110	Mathematical Measurements	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	12	10	0	16

Total Semester Hour Credits: 67

DIPLOMA - D60160**FALL SEMESTER 1**

Prefix	Number	Title	Class	Lab	Clinical	Credit
AUT	151	Brake Systems	2	3	0	3
AUT	151A	Brake Systems Lab	0	3	0	1
TRN	110	Introduction to Automotive	1	2	0	2
TRN	120	Basic Transportation Electricity	4	3	0	5
TRN	120A	Basic Transportation Electricity Lab	0	3	0	1

Choose one of the following:

ACA	111	College Student Success	1	0	0	1
ACA	122	College Transfer Success	0	2	0	1
		Totals	7-8	14-16	0	13

SPRING SEMESTER 1

AUT	141	Suspension & Steering Systems	2	3	0	3
AUT	141A	Suspension & Steering Lab	0	3	0	1
CIS	111	Basic PC Literacy	1	2	0	2
ENG	111	Writing and Inquiry	3	0	0	3
TRN	145	Advanced Transportation Electronics	2	3	0	3
		Totals	8	11	0	12

SUMMER SEMESTER

AUT	181	Engine Performance I	2	3	0	3
TRN	140	Transportation Climate Control	1	2	0	2
TRN	140A	Transportation Climate Control Lab	1	2	0	2
		Totals	4	7	0	7

FALL SEMESTER 2

AUT	116	Engine Repair	2	3	0	3
LDD	112	Introduction to Light-Duty Diesel	2	2	0	3

Choose one of the following:

MAT	110	Mathematical Measurements	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	6	7	0	9

Total Semester Hour Credits: 41

BASIC CERTIFICATE - C60160B

SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
AUT	151	Brake Systems	2	3	0	3
AUT	151A	Brake Systems Lab	0	3	0	1
TRN	110	Introduction to Automotive	1	2	0	2
TRN	120	Basic Transportation Electricity	4	3	0	5
		Totals	7	11	0	11

SEMESTER 2

AUT	141	Suspension & Steering Systems	2	3	0	3
AUT	141A	Suspension & Steering Systems Lab	0	3	0	1
		Totals	2	6	0	4

Total Semester Hour Credits: 15

ADVANCED CERTIFICATE - C60160A

SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
AUT	181	Engine Performance I	2	3	0	3
TRN	140	Transportation Climate Control	1	2	0	2
TRN	140A	Transportation Climate Control Lab	1	2	0	2
TRN	145	Advanced Transportation Electronics	2	3	0	3
		Totals	6	10	0	10

SEMESTER 2

AUT	183	Engine Performance II	2	6	0	4
LDD	112	Intro to Light-Duty Diesel	2	2	0	3
		Totals	4	8	0	7

Total Semester Hour Credits: 17



CERTIFICATE - C60160CP***FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
TRN	110	Introduction to Automotive	1	2	0	2
TRN	120	Basic Transportation Electricity	4	3	0	5
TRN	120A	Basic Transportation Electricity Lab	0	3	0	1
		Totals	5	8	0	8

SPRING SEMESTER 1

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
		Totals	4	9	0	7

FALL SEMESTER 2

AUT	181	Engine Performance I	2	3	0	3
		Totals	2	3	0	3

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 18 for additional information.

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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, diploma 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	Writing and Inquiry	3	0	0	3
<u>Choose one of the following:</u>						
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
Totals			11-12	4	0	13-14

SPRING SEMESTER 1

BUS	139	Entrepreneurship I	3	0	0	3
BUS	168	Electronic Business	2	2	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
<u>Choose one of the following:</u>						
ACC	115	College Accounting	3	2	0	4
ACC	120	Principles of Financial Accounting	3	2	0	4
Totals			14	4	0	16

SUMMER SEMESTER

BUS	137	Principles of Management	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
<u>Choose one of the following:</u>						
HUM	115	Critical Thinking	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
Totals			8	2	0	9

FALL SEMESTER 2

BUS	115	Business Law I	3	0	0	3
BUS	240	Business Ethics	3	0	0	3
BUS	260	Business Communication	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	3	0	0	3
Totals			12	0	0	12

SPRING SEMESTER 2

BUS	125	Personal Finance	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
<u>Choose two of the following:</u>						
ACC	121	Principles of Managerial Acct	3	2	0	4
BUS	135	Principles of Supervision	3	0	0	3
MKT	232	Social Media Marketing	3	2	0	4
MKT	223	Customer Service	3	0	0	3
<u>Choose one of the following:</u>						
PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
Totals			15	0-4	0	15-17

Total Semester Hour Credits: 65-67

DIPLOMA - D25120

The Business Administration diploma is an intermediate credential for students enrolled in a business studies program. Students will have a foundation of essential business skills and knowledge for the workplace while earning credit towards an Associate's Degree in the program. Students can complete the required diploma courses online.

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	Writing & Inquiry	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
<u>Choose one of the following:</u>						
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
Totals			14-15	4	0	16-17

SPRING SEMESTER 1

BUS	115	Business Law I	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
BUS	168	Electronic Business	2	2	0	3
<u>Choose one of the following:</u>						
ACC	115	College Accounting	3	2	0	4
ACC	120	Principles of Financial Accounting	3	2	0	4
Totals			14	4	0	16

SUMMER SEMESTER

BUS	137	Principles of Management	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	3	0	0	3
Totals			6	0	0	6

Total Semester Hour Credits: 38-39

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 associates degree or diploma in the program.

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
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	3	0	0	3
<u>Choose one of the following:</u>						
ACC	115	College Accounting	3	2	0	4
ACC	120	Principles of Financial Accounting***	3	2	0	4
		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 18 for additional information.

***Career & College Promise students MUST take ACC 120.

FACULTY

**Carolyn Porter, Business Department Chair /
Program Coordinator**

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The Electronic Commerce track in Business Administration prepares individuals for a career in the Internet economy.

Course work includes topics related to electronic business, Internet strategy in business and to identify and analyze such functional issues as planning, technical systems, marketing, security, law, design, implementation, 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 as online courses.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A25120EC

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	Writing and Inquiry	3	0	0	3
<u>Choose one of the following:</u>						
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
		Totals	11-12	4	0	13-14

SPRING SEMESTER 1

BUS	168	Electronic Business	2	2	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
WEB	140	Web Development Tools	2	2	0	3
<u>Choose one of the following:</u>						
ACC	115	College Accounting	3	2	0	4
ACC	120	Principles of Financial Accounting	3	2	0	4
		Totals	13	6	0	16

SUMMER SEMESTER

BUS	137	Principles of Management	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
<u>Choose one of the following:</u>						
HUM	110	Technology & Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
		Totals	9	0	0	9

FALL SEMESTER 2

BUS	115	Business Law I	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
BUS	260	Business Communication	3	0	0	3
WEB	111	Introduction to Web Graphics	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	3	0	0	3
		Totals	14	2	0	15

SPRING SEMESTER 2

BUS	125	Personal Finance	3	0	0	3
MKT	232	Social Media Marketing	3	2	0	4
MKT	223	Customer Service	3	0	0	3
<u>Choose one of the following:</u>						
SOC	210	Introduction to Sociology	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	12	2	0	13

Total Semester Hour Credits: 66-67

FACULTY

**Carolyn Porter, Business Department Chair /
Program Coordinator**

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828.339.4232 or 800.447.4091, ext. 4232

The Entrepreneurship track in Business Administration provides students with the fundamental knowledge of business functions and 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) - A25120ET 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	Writing and Inquiry	3	0	0	3
<u>Choose one of the following:</u>						
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
Totals			11-12	4	0	13-14

SPRING SEMESTER 1

BUS	139	Entrepreneurship I	3	0	0	3
BUS	168	Electronic Business	2	2	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
<u>Choose one of the following:</u>						
ACC	115	College Accounting	3	2	0	4
ACC	120	Principles of Financial Accounting	3	2	0	4
Totals			14	4	0	16

SUMMER SEMESTER

BUS	137	Principles of Management	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
<u>Choose one of the following:</u>						
HUM	115	Critical Thinking	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
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
ETR	220	Innovation and Creativity	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	3	0	0	3
Totals			12	0	0	12

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

Choose one of the following:

ACC	121	Principles of Managerial Acct	3	2	0	4
BUS	135	Principles of Supervision	3	0	0	3
MKT	232	Social Media Marketing	3	2	0	4
MKT	223	Customer Service	3	0	0	3

Choose one of the following:

SOC	210	Introduction to Sociology	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	15	0-2	0	15-16

Total Semester Hour Credits: 65-67

CERTIFICATE - C25120ET

The Entrepreneurship certificate introduces students to the fundamental knowledge needed by successful entrepreneurs. Students will have a foundation of essential business skills and knowledge for the workplace while earning credit towards an associate degree in the program. Students can complete the certificate courses online.

FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
BUS	110	Introduction to Business	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
ETR	220	Innovation and Creativity	3	0	0	3

Choose one of the following:

ACC	115	College Accounting	3	2	0	4
ACC	120	Principles of Financial Accounting	3	2	0	4
		Totals	15	2	0	16

Total Semester Hour Credits: 16

FACULTY**William Clark, Lead Instructor**

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The Office Administration curriculum prepares individuals for employment as administrative office personnel who use skills in the areas of office management, office finance, legal office, virtual office, customer service, and office software.

Course work includes computer applications, oral and written communication, analysis and coordination of office tasks and procedures, records management, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of office positions in business, government, and industry. Upon graduation, students may be eligible to sit for industry recognized certification exams. Students can complete the required courses for this degree, diploma and certificate online.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A25370

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	Student Success	1	0	0	1
CIS	110	Introduction to Computers	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	131	Keyboarding	1	2	0	2
OST	136	Word Processing	2	2	0	3
OST	164	Office Editing	3	0	0	3
		Totals	13	4	0	15

SPRING SEMESTER 1

BUS	110	Introduction to Business	3	0	0	3
BUS	135	Principles of Supervision	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
OST	184	Records Management	2	2	0	3
<u>Choose one of the following:</u>						
MAT	110	Mathematical Measurement and Lit	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods	3	2	0	4
		Totals	13-14	8	0	15-16

SUMMER SEMESTER

Choose one of the following:

HUM	115	Critical Thinking	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
<u>Choose one of the following:</u>						
PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
		Totals	6	0	0	6

FALL SEMESTER 2

CTS	130	Spreadsheet	2	2	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	114	Prof Research & Reporting	3	0	0	3
OST	286	Professional Development	3	0	0	3
<u>Choose one of the following:</u>						
ACC	115	College Accounting	3	2	0	4
OST	153	Office Finance Solutions	1	2	0	2
		Totals	11-13	7	0	14-16

SPRING SEMESTER 2

BUS	125	Personal Finance	3	0	0	3
BUS	240	Business Ethics	3	0	0	3
BUS	260	Business Communications	3	0	0	3
MKT	232	Social Media Marketing	3	2	0	4
OST	289	Office Administration Capstone	2	2	0	3
		Totals	14	4	0	16

Total Semester Hour Credits: 66-69

OFFICE ADMINISTRATION DIPLOMA - D25370

The Office Administration Diploma curriculum is designed to provide the intermediate entry-level employment training necessary for entry-level office administration positions. Associate degree level courses within the diploma program may also be applied toward an AAS degree in Office Administration. Students can complete the courses required for this diploma as online courses.

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	Student Success	1	0	0	1
CIS	110	Introduction to Computers	3	0	0	3
OST	131	Keyboarding	1	2	0	2
OST	136	Word Processing	2	2	0	3
OST	164	Office Editing	3	0	0	3
		Totals	10	4	0	12

SPRING SEMESTER 1

BUS	110	Introduction to Business	3	0	0	3
BUS	135	Principles of Supervision	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	184	Records Management	2	2	0	3
		Totals	14	2	0	15

FALL SEMESTER 2

BUS	125	Personal Finance	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
OST	286	Professional Development	3	0	0	3
<u>Choose one of the following:</u>						
HUM	115	Critical Thinking	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
		Totals	11	2	0	12

Total Semester Hour Credits: 39

CERTIFICATE - C25370 & C25370CP*

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. Associate degree level courses within a certificate may also be applied toward the diploma and then the AAS degree in Office Administration.

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	Student Success	1	0	0	1
CIS	110	Introduction to Computers	3	0	0	3
OST	131	Keyboarding	1	2	0	2
OST	164	Office Editing	3	0	0	3
		Totals	8	2	0	9

SPRING SEMESTER 1

OST	136	Word Processing	2	2	0	3
OST	184	Records Management	2	2	0	3
MKT	223	Customer Service	3	0	0	3
		Totals	7	4	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 18 for additional information.

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Civil Engineering Technology prepares students to use basic engineering principles and technical skills to carry out planning, documenting and supervising tasks in sustainable land development and public works and facilities projects. The program includes instruction in the communication and computational skills required for materials testing, structural testing, field and laboratory testing, site analysis, estimating, project management, plan preparation, hydraulics, environmental technology, and surveying. 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
CEG	115	Intro to Technology & Sustainability	2	3	0	3
CEG	151	CAD for Engineering Technology	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
		Totals	13	10	0	17

SPRING SEMESTER 1

CEG	211	Hydrology & Erosion Control	2	3	0	3
CIV	215	Highway Technology	2	3	0	3
EGR	250	Statics & Strength of Materials	4	3	0	5
SRV	110	Surveying I	2	6	0	4
		Totals	10	15	0	15

SUMMER SEMESTER

ENG	114	Professional Research & Reporting	3	0	0	3
SRV	111	Surveying II	2	6	0	4
<u>Choose one of the following:</u>						
HUM	115	Critical Thinking	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
<u>Choose one of the following:</u>						
ECO	251	Principles of Microeconomics	3	0	0	3
POL	120	American Government	3	0	0	3
		Totals	11	6	0	13

FALL SEMESTER 2

CEG	111	Introduction to GIS & GNSS	2	4	0	4
CEG	210	Construction Materials & Methods	2	3	0	3
CIV	111	Soils and Foundations	2	4	0	4
SRV	210	Surveying III	2	6	0	4
SRV	220	Surveying Law	2	2	0	3
		Totals	10	19	0	18

SPRING SEMESTER 2

CEG	212	Introduction to Environmental Tech.	2	3	0	3
CEG	230	Subdivision Planning & Design	1	6	0	3
CEG	235	Project Management & Estimating	2	3	0	3
SRV	240	Topo/Site Surveying	2	6	0	4
		Totals	7	18	0	13

Total Semester Hours Credit: 76

FACULTY

Jeanette White, P.E., Program Coordinator

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A course of study that prepares the students to use basic engineering principles and technical skills for installing, servicing, and maintaining computers, peripherals, networks, and microprocessor and computer controlled equipment. Includes instruction in mathematics, computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation.

Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring 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 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
CET	110	Introduction to CET	0	3	0	1
DFT	117	Technical Drafting	1	2	0	2
ELC	131	Circuit Analysis I	4	3	0	4
MAT	121	Algebra/Trigonometry I	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
		Totals	11	10	0	14

SPRING SEMESTER 1

CET	130	Operating Systems Principles	2	3	0	3
ELN	131	Analog Electronics I	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	3
		Totals	10	8	0	13

SUMMER SEMESTER

CSC	134	C++ Programming	2	3	0	3
ELN	133	Digital Electronics	3	3	0	4
COM	231	Public Speaking	3	0	0	3
		Totals	8	6	0	10

FALL SEMESTER 2

CET	111	Computer Upgrade/Repair I	2	3	0	3
TNE	111	Campus Networks I	2	3	0	3
ELN	232	Introduction to Microprocessors	3	3	0	4
TNE	121	Campus Networks II	2	3	0	3
		Totals	9	12	0	13

SPRING SEMESTER 2

CET	211	Computer Upgrade/Repair II	2	3	0	3
CET	245	Internet Servers	2	3	0	3
ELN	237	LANs	2	3	0	3
ELN	238	Advanced LANs	2	3	0	3
<u>Choose one of the following:</u>						
HUM	110	Technology and Society	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
<u>Choose one of the following:</u>						
EGR	285	Design Project	0	4	0	2
WBL	112	Work-Based Learning I	0	0	20	2
		Totals	11	12-16	0-20	17

Total Semester Hour Credits: 67

FACULTY

Michael Deaver, Program Coordinator

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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

Prefix	Number	Title	Class	Lab	Clinical	Credit
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	Writing and Inquiry	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
<u>Choose one of the following:</u>						
MAT	110	Mathematical Measurement	2	2	0	3
MAT	143	Quantitative Literacy	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
<u>Choose one of the following:</u>						
HUM	115	Critical Thinking	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
<u>Choose one of the following:</u>						
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), D55140CP*

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <https://www.southwesterncc.edu/gainful-employment-disclosure/gainful-employment-disclosure-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	0	24	0	8
<u>Choose one of the following:</u>						
ACA	111	College Student Success	1	0	0	1
ACA	122	College Transfer Success	0	2	0	1
Totals			4-5	24-26	0	13

SPRING SEMESTER 1

COS	113	Cosmetology Concepts II	4	0	0	4
COS	114	Salon II	0	24	0	8
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	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
ENG	111	Writing and Inquiry	3	0	0	3
Totals			5	21	0	12

Total Semester Hour Credits: 48

* This diploma or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

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CERTIFICATE C55140 (1500 Hours)

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <https://www.southwesterncc.edu/gainful-employment-disclosure/gainful-employment-disclosure-cosmetology-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>
COS	111	Cosmetology Concepts I	4	0	0	4
COS	112	Salon I	0	24	0	8
		Totals	4	24	0	12

SPRING SEMESTER 1

COS	113	Cosmetology Concepts II	4	0	0	4
COS	114	Salon II	0	24	0	8
		Totals	4	24	0	12

SUMMER SEMESTER

COS	115	Cosmetology Concepts III	4	0	0	4
COS	116	Salon III	0	12	0	4
		Totals	4	12	0	8

FALL SEMESTER 2

COS	117	Cosmetology Concepts IV	2	0	0	2
COS	118	Salon IV	0	21	0	7
		Totals	2	21	0	9

Total Semester Hour Credits: 41

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

<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
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	Writing and Inquiry	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		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	110	Mathematical Measurement & Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	17	4-6	0	18-19

SUMMER SEMESTER

WBL	111	Work-Based Learning I	0	0	10	1
		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

Choose one of the following:

SOC	210	Introduction to Sociology	3	0	0	3
SOC	220	Social Problems	3	0	0	3

Choose one of the following:

HUM	122	Southern Culture	3	0	0	3
HUM	160	Introduction to Film	3	0	0	3
		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	151	Introduction to Loss Prevention	3	0	0	3
CJC	160	Terrorism: Underlying Issues	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

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 (18 credit hours total) toward the Criminal Justice Technology associate of applied science degree program.

CERTIFICATE - C55180CP**FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
		Totals	6	0	0	6

SPRING SEMESTER 1

CJC	113	Juvenile Justice	3	0	0	3
CJC	131	Criminal Law	3	0	0	3
		Totals	6	0	0	6

FALL SEMESTER 2

CJC	231	Constitutional Law	3	0	0	3
		Totals	3	0	0	3

SPRING SEMESTER 2

CJC	212	Ethics and Community Relations	3	0	0	3
		Totals	3	0	0	3

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 18 for additional information.

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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	1	4	0	3
		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	Writing and Inquiry	3	0	0	3
<u>Choose one of the following:</u>						
MAT	110	Mathematical Measurement & Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	8	18	0	17

SUMMER SEMESTER

Choose one of the following:

WBL	112	Work-Based Learning I	0	0	20	2
OR						
WBL	111 and	Work-Based Learning I	0	0	10	1
WBL	121	Work-Based Learning II	0	0	10	1
		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	3	0	0	3
		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
PSY	150	General Psychology	3	0	0	3
<u>Choose one of the following:</u>						
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
		Totals	12	8	0	16

Total Semester Hour Credits: 70

CERTIFICATE - C55150 & C55150CP***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	112	Nutrition for Foodservice	3	0	0	3
CUL	135	Food & Beverage Service	2	0	0	2
CUL	135A	Food & Beverage Service Lab	0	2	0	1
CUL	140	Culinary Skills I	2	6	0	5
CUL	160	Baking I	1	4	0	3
		Totals	10	14	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 18 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
CTI	120	Network & Security Foundation	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
NOS	110	Operating System Concepts	2	3	0	3
		Totals	14	5	0	16

SPRING SEMESTER 1

CCT	121	Computer Crime Investigation	3	2	0	4
CTI	140	Virtualization Concepts	1	4	0	3
ENG	112	Writing & Research in the Disciplines	3	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
		Totals	11	10	0	16

SUMMER SEMESTER

MAT	143	Quantitative Literacy	2	2	0	3
<u>Choose one of the following:</u>						
ECO	151	Survey of Economics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
<u>Choose one of the following:</u>						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
		Totals	8	2	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
NET	175	Wireless Technology	2	2	0	3
NOS	230	Windows Administration I	2	2	0	3
		Totals	12	13	0	18

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
CTI	141	Cloud & Storage Concepts	1	4	0	3
		Totals	8	17	0	15

Total Semester Hour Credits: 74

FACULTY

Kirk Stephens, Program Coordinator

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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 the minimum high school GPA requirement or 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>
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
DRE	096	Integrated Reading & Writing	2.5	1	3
DRE	097	Integrated Reading & Writing II	2.5	1	3
DRE	098	Integrated Reading & Writing III	2.5	1	3
DRE	099	Integrated Reading & Writing III	2	0	2

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	122	College Transfer Success	0	2	1

FACULTY**Mary Bradley**

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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	Intro to Early Childhood Education	4	0	0	4
EDU	144	Child Development I	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
ENG	111	Writing and Inquiry	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	1	2	0	2
		Totals	15-16	2	0	16-17

SPRING SEMESTER 1

EDU	131	Child, Family, & Community	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	153	Health, Safety, & Nutrition	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
<u>Choose one of the following:</u>						
MAT	110	Mathematical Measurement	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	14	2	0	15

SUMMER SEMESTER

EDU	151	Creative Activities	3	0	0	3
EDU	184	Early Childhood Introductory Practicum	1	3	0	2
		Totals	4	3	0	5

FALL SEMESTER 2

EDU	259	Curriculum Planning	3	0	0	3
EDU	280	Language & Literacy Experiences	3	0	0	3
EDU	***	Education Elective	3	0	0	3
PSY	150	General Psychology	3	0	0	3
<u>Choose one of the following:</u>						
ART	111	Art Appreciation	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
		Totals	15	0	0	15

SPRING SEMESTER 2

EDU	221	Children with Exceptionalities	3	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	284	Early Child Capstone Practicum	1	9	0	4
EDU	***	Education Elective	3	0	0	3
		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	162	Observation and Assessment in ECE	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: 67-68

CERTIFICATE - C55220

<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

Choose one of the following:

EDU	151	Creative Activities	3	0	0	3
EDU	259	Curriculum Planning	3	0	0	3
		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	3	0	0	3
		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 18 for additional information.

FACULTY**Linda Aiken, Program Coordinator**

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EARLY CHILDHOOD ADMINISTRATION - CERTIFICATE C55850

This curriculum prepares individuals pursuing administrating roles in diverse child care settings to effectively work with children, families and teachers. The certificate is composed of learning opportunities in developmental theories, competency and evidence-based professional knowledge, administrative skills and leadership qualities.

Course work includes foundations in early childhood education, physical/nutritional needs of young children, safety issues in the care of young children; communication and leadership skills with teachers, families and children; programming and staffing, budgeting/financial management and marketing, and rules and regulations of early childhood programs.

Employment opportunities include entrepreneurship and/or management of child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start and Head Start programs, and other programs.

*Pending NCCCS Approval

FALL SEMESTER 1

<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	261	Early Childhood Administration I	3	0	0	3
		Totals	7	0	0	7

SPRING SEMESTER 1

EDU	131	Child, Family and Community	3	0	0	3
EDU	153	Health, Safety and Nutrition	3	0	0	3
EDU	262	Early Childhood Administration II	3	0	0	3
		Totals	9	0	0	9

Total Semester Hour Credits: 16

FACULTY

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EARLY CHILDHOOD PRESCHOOL - CERTIFICATE C55860

This curriculum prepares individuals pursuing administrating roles in diverse child. This curriculum prepares individuals to work with preschool aged children (3-5) in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with preschool children.

Course work includes child growth and development, physical/nutritional needs of preschool children, safety issues in the care of preschool children; care and guidance; communication skills with families and children; design and implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate preschool 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 other preschool programs.

*Pending NCCCS Approval

FALL SEMESTER 1

<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	146	Child Guidance	3	0	0	3
		Totals	7	0	0	7

SPRING SEMESTER 1

EDU	131	Child, Family and Community	3	0	0	3
EDU	153	Health, Safety and Nutrition	3	0	0	3
EDU	145	Child Development II	3	0	0	3
		Totals	9	0	0	9

Total Semester Hour Credits: 16

FACULTY

Linda Aiken, Program Coordinator

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Electronics Engineering Technology is a course of study that prepares the students to apply basic engineering principles and technical skills 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. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers.

Graduates should qualify for employment as electronics engineering technicians, field service technicians, instrumentation technicians, maintenance technicians, electronic testers, electronic systems integrators, bench technicians, and production control technicians.

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>
ACA	111	College Student Success	1	0	0	1
CET	110	Introduction to CET	0	3	0	1
DFT	117	Technical Drafting	1	2	0	2
ELC	131	Circuit Analysis I	3	3	0	4
MAT	121	Algebra/Trigonometry I	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
		Totals	10	12	0	14

SPRING SEMESTER 1

ELC	128	Introduction to PLC	2	3	0	3
ELN	131	Analog Electronics I	3	3	0	4
ENG	111	Writing & Inquiry	3	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	3
		Totals	10	8	0	13

SUMMER SEMESTER

ELN	132	Analog Electronics II	3	3	0	4
ELN	133	Digital Electronics	3	3	0	4
COM	231	Public Speaking	3	0	0	3
		Totals	9	6	0	11

FALL SEMESTER 2

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	9	13	0	14

SPRING SEMESTER 2

ELN	152	Fabrication Techniques	1	3	0	2
ELN	258	FCC Commercial License Prep	3	0	0	3
ELN	264	Advanced Communication	4	3	0	5
<u>Choose one of the following:</u>						
HUM	110	Technology and Society	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
<u>Choose one of the following:</u>						
EGR	285	Design Project	0	4	0	2
WBL	112	Work-Based Learning I	0	0	20	2
		Totals	11	6-10	0-20	15

Total Semester Hour Credits: 67

CERTIFICATE - C40200CP

ATR	112	Introduction to Automation	2	3	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ELN	131	Analog Electronics I	3	3	0	4
ELN	133	Digital Electronics	3	3	0	4
		Totals	11	12	0	15

Total Semester Hour Credits: 15

This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

FACULTY**Jim Falbo, Program Coordinator**

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Justin Hess

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The Emergency Medical Science curriculum provides individuals with the knowledge, skills and attributes to provide advanced emergency medical care as paramedics for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce.

Students will gain complex knowledge, competency, and experience while employing evidence based practice under medical oversight, and serve as a link from the scene into the healthcare system.

Graduates of this program may be eligible to take state and/or national certification examinations. Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational 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>
ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy & Physiology I	3	3	0	4
EMS	110	EMT	6	6	0	8
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
		Totals	16	9	0	19

SPRING SEMESTER 1

BIO	169	Anatomy & Physiology II	3	3	0	4
EMS	122	EMS Clinical Practicum I	0	0	3	1
EMS	130	Pharmacology	3	3	0	4
EMS	131	Adv. Airway Management	1	2	0	2
ENG	111	Writing & Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	12	10	3	17

SUMMER SEMESTER

EMS	160	Cardiology I	1	3	0	2
EMS	220	Cardiology II	2	3	0	3
EMS	221	EMS Clinical Practicum II	0	0	6	2
ENG	114	Professional Research and Reporting	3	0	0	3
		Totals	6	6	6	10

FALL SEMESTER 2

EMS	240	Patients with Special Challenges	1	2	0	2
EMS	231	EMS Clinical Practicum III	0	0	9	3
EMS	250	Medical Emergencies	3	3	0	4
EMS	260	Trauma Emergencies	1	3	0	2
EMS	270	Life Span Emergencies	2	3	0	3
		Totals	7	11	9	14

SPRING SEMESTER 2

EMS	235	EMS Management	2	0	0	2
EMS	241	EMS Clinical Practicum IV	0	0	12	4
EMS	285	EMS Capstone	1	3	0	2
HUM	115	Critical Thinking	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	9	3	12	14

Total Semester Hour Credits: 74

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	6	6	0	8
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
		Totals	12	6	0	14

Total Semester Hour Credits: 14

* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

ADMISSIONS CRITERIA

The program has a limited enrollment and only admits a class in the spring of each year. Applications and supporting documents must be completed and submitted by Phase I deadline, if applicable. 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 October 1

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Emergency Medical Science AAS Degree (A45340) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
2. Be a high school graduate or have earned a high school equivalency diploma (GED). Exception: current high school students
3. Be enrolled in EMS Certificate (C45340 or C45340CP) to include EMS 110, Med 121, and Med 122 or Therapeutic & Diagnostic - EMS (D45910/D45910CP). Must be enrolled or show evidence of completion of ACA 111 and BIO 168. Students who already hold current NC EMT or NC EMT Intermediate may be eligible for advanced placement credit for EMS 110 at the discretion of the Program Coordinator.
4. 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.
5. 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.
6. 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.

- d. Successful completion of a college-level math, English and computer literacy course.
7. Must take TEAS - Allied Health Exam. Refer to the website for cut-off scores.
8. Submit a copy of a current/valid North Carolina drivers license.
9. Be 18 years of age prior to the first semester of the program. Exception: current high school students must turn 18 within one year of completion of EMS 110
10. 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 the Phase I requirements are scheduled for a personal interview. Applicants will be notified of date and time. After the interview process is complete, the top applicants will be accepted into 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 Acknowledgment 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 package. 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 coordinator by January 5. Failure to complete the health packet may result in relinquishment of full acceptance status.

Notes:

1. The EMS program has a limited enrollment and only admits a class in the spring of each year. Applications must be completed and supporting documents submitted by October 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.
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-degreed 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. International Trauma Life Support or Prehospital Trauma Life Support (ITLS-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

Prefix	Number	Title	Class	Lab	Clinical	Credit
BIO	168	Anatomy and Physiology I	3	3	0	4
BIO	169	Anatomy and Physiology II	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	20	8	0	23

EMERGENCY MEDICAL SCIENCE COURSES

EMS	235	EMS Management	2	0	0	2
EMS	240	Patients with Special Challenges	1	2	0	2
EMS	280	EMS Bridging Course	2	2	0	3
		Totals	5	4	0	7

Total Semester Hour Credits: 30

NOTES

1. All students admitted into a health science program will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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

Eric Hester, Program Coordinator
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Tony Belcher, Clinical Coordinator
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828.339.4309 or 800.447.4091, ext. 4309

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>
ACA	111	College Student Success	1	0	0	1
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
ENG	111	Writing & Inquiry	3	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	3
		Totals	12	8	0	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
HUM	110	Technology and Society	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	15	6	0	17

SUMMER SEMESTER - Blue Ridge Community College

CIS	110	Introduction to Computers	2	2	0	3
***	***	Major Course Elective	2-5	0-3	0-30	5
		Totals	4-7	2-5	0-30	8

FALL SEMESTER 2 - Blue Ridge Community College

BIO	145	Ecology	3	3	0	4
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
		Totals	16	5	0	18

SPRING SEMESTER 2 - Blue Ridge Community College

ENV	214	Water Quality	3	2	0	4
ENV	228	Environmental Issues	1	0	0	1
ENV	226	Environmental Law	3	0	0	3
		Totals	7	2	0	8

Total Semester Hour Credits: 66

CHOOSE ELECTIVE HOURS FROM THE FOLLOWING COURSES

(Advisor approval required)

ALT	120	Renewable Energy Tech	2	2	0	3
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	163	Basic Anatomy and Physiology	4	2	0	5
BIO	175	General Microbiology	2	2	0	3
BIO	242	Natural Resource Conserv.	3	0	0	3
EHS	215	Incident Management	3	2	0	4
GIS	111	Introduction to GIS	2	2	0	3
LID	111	LID Design Principles	2	3	0	3
SST	110	Intro to Sustainability	3	0	0	3
SST	120	Energy Use Analysis	2	2	0	3
SST	140	Green Bldg & Design Concepts	3	0	0	3
WAT	110	Basic Wastewater Trmt	2	3	0	3
WBL	111	Work-Based Learning I	0	0	10	1
WBL	112	Work-Based Learning I	0	0	20	2
WBL	113	Work-Based Learning II	0	0	30	3

Degree awarded by Blue Ridge Community College

ADVISOR**Deanne Oppermann**

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828.339.4298 or 800.447.4091, ext. 4298

The Fire Protection Technology curriculum is designed to provide students with knowledge and skills in the technical, managerial, and leadership areas necessary for advancement within the fire protection community and related firefighting industries, and to provide currently employed firefighters with knowledge and skills often required for promotional consideration.

Course work includes diverse fire protection subject areas, including fire prevention and safety, public education, building construction, fire ground strategies and tactics, and local government finance and laws, as they apply to emergency services management. Emphasis includes understanding fire characteristics and the structural consequences of fire; risk assessment and management; and relevant research, communications, and leadership methodologies.

Employment opportunities exist with fire departments, governmental agencies, industrial firms, insurance rating organizations, and educational organizations.

***Pending NCCCS Approval

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A55240

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	Writing & Inquiry	3	0	0	3
FIP	120	Intro to Fire Protection	3	0	0	3
FIP	132	Building Construction	3	0	0	3
		Totals	12	2	0	13

SPRING SEMESTER 1

ENG	114	Professional Research & Reporting	3	0	0	3
FIP	124	Fire Prevention & Public Ed	3	0	0	3
FIP	146	Fire Protection Systems	3	2	0	4
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	11	4	0	13

SUMMER SEMESTER

FIP	128	Detection and Investigation	3	0	0	3
FIP	152	Fire Protection Law	3	0	0	3
PSY	150	General Psychology	3	0	0	3
<u>Choose one of the following:</u>						
HUM	110	Technology & Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
		Totals	12	0	0	12

FALL SEMESTER 2

FIP	164	OSHA Standards	3	0	0	3
FIP	220	Fire Fighting Strategies	3	0	0	3
FIP	221	Advanced Fire Fighting Strategies	3	0	0	3
FIP	228	Local Government Finance	3	0	0	3
***Elective						3-4
		Totals	12	3	0	15-16

SPRING SEMESTER 2

FIP	230	Chemistry of Hazardous Materials	5	0	0	5
FIP	240	Fire Service Supervision	3	0	0	3
FIP	276	Managing Fire Service	3	0	0	3
***Elective						3-4
		Totals	11	0	0	14-15

Total Semester Hour Credits: 67-69

Electives:

FIP	136	Inspections & Codes	3	0	0	3
May receive credit for Fire Inspector I & II						
FIP	144	Sprinklers & Automatic Alarm Systems	2	2	0	3
FIP	188	Intro to Wildland Fires	3	2	0	4
May receive credit for Wildland Fire Academy						
FIP	224	Fire Instructor I & II	4	0	0	4
May receive credit for Instructor I & II						
FIP	226	Fire Officer I & II	4	0	0	4
May receive credit for Fire Officer I & II						
FIP	232	Hydraulics & Water Distribution	2	2	0	3
Required to transfer to UNC Fayetteville						
FIP	236	Emergency Management	3	0	0	3
May receive credit for Fire Officer III						
FIP	248	Fire Service Personnel Administration	3	0	0	3
FIP	256	Municipal Public Relations	3	0	0	3
Required for transfer to UNC Fayetteville						
FIP	260	Fire Protection Planning	3	0	0	3
May receive credit for EPT 110 or EMS 110						

FACULTY**Curtis Dowdle, Program Coordinator**

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Todd Sumner, Program Coordinator/Instructor

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828.306.7051 or 800.447.4091, ext. 7051

A course of study that prepares students to use mathematical and scientific principles for the delineation, determination, planning and positioning of land tracts, boundaries, contours and features applying principles of route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other kinds of property description and measurement to create related maps, charts and reports. Includes instruction in applied geodesy, computer graphics, photo interpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography. Graduates should qualify for jobs as survey party chiefs, instrument persons, surveying technicians, highway surveyors, mappers, GPS technicians, and CAD operators. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyors in North Carolina.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A40420

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
CEG	115	Intro to Technology & Sustainability	2	3	0	3
CEG	151	CAD for Engineering Technology	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
		Totals	13	10	0	17

SPRING SEMESTER 1

CEG	211	Hydrology & Erosion Control	2	3	0	3
CIV	215	Highway Technology	2	3	0	3
EGR	250	Statics & Strength of Materials	4	3	0	5
SRV	110	Surveying I	2	6	0	4
		Totals	10	15	0	15

SUMMER SEMESTER

ENG	114	Professional Research & Reporting	3	0	0	3
SRV	111	Surveying II	2	6	0	4

Choose one of the following:

HUM	115	Critical Thinking	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3

Choose one of the following:

ECO	251	Principles of Microeconomics	3	0	0	3
POL	120	American Government	3	0	0	3
		Totals	11	6	0	13

FALL SEMESTER 2

CEG	111	Introduction to GIS & GNSS	2	4	0	4
CEG	210	Construction Materials & Methods	2	3	0	3
CIV	111	Soils and Foundations	2	4	0	4
SRV	210	Surveying III	2	6	0	8
SRV	220	Surveying Law	2	2	0	3
		Totals	10	19	0	18

SPRING SEMESTER 2

CEG	212	Introduction to Environmental Tech.	2	3	0	3
CEG	230	Subdivision Planning & Design	1	6	0	3
CEG	235	Project Management & Estimating	2	3	0	3
SRV	240	Topo/Site Surveying	2	6	0	4
		Totals	7	18	0	13

Total Semester Hours Credit: 76

FACULTY

Jeanette White, P.E., Program Coordinator

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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.

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 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 and Physiology I	3	3	0	4
ENG	111	Writing & Inquiry	3	0	0	3
HIT	110	Fundamentals of HIM	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
		Totals	16	3	0	17

SPRING SEMESTER 1

BIO	169	Anatomy and Physiology II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
HIT	114	Health Data Systems/Standards	2	3	0	3
<u>Choose one of the following:</u>						
MAT	110	Mathematical Measurement & Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	12	10	0	16

SUMMER SEMESTER

HIT	112	Health Law & Ethics	3	0	0	3
HIT	216	Quality Management	1	3	0	2
HIT	226	Principles of Disease	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	10	3	0	11

FALL SEMESTER 2

HIT	122	Professional Practice Experience I	0	0	3	1
HIT	211	ICD Coding	2	6	0	4
HIT	218	Management Principles in HIT	3	0	0	3
HIT	220	Health Informatics and EHR's	1	2	0	2
HIT	221	Life Cycle of EHR	2	2	0	3
HUM	110	Technology and Society	3	0	0	3
		Totals	11	10	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	2	0	0	2
<u>Choose one of the following:</u>						
HIT	225	Healthcare Informatics	3	2	0	4
HIT	227	Informatics Project Management	2	2	0	3
		Totals	8-9	9	9	15-16

Total Semester Credit Hours: 75-76

ADMISSIONS CRITERIA

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Health Information Technology AAS Degree (A45360) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
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 ensure that all necessary records are sent to the College's Admissions Office.
4. Have a grade point average of 2.5 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, 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 will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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

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Amber Sutton, Instructor

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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**SUMMER 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
		Totals	2	2	0	3

FALL SEMESTER 1

HIT	221	Lifecycle of EHR	2	2	0	3
HIT	220	Health Informatics & EHR's	1	2	0	2
		Totals	3	4	0	5

SPRING SEMESTER 1

HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	225	Healthcare Informatics	3	2	0	4
HIT	227	Informatics Project Mgt	2	2	0	3
		Totals	7	7	0	10

Total Semester Hour Credits: 18

ADMISSIONS CRITERIA

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Health Informatics Certificate (C453601) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
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 2.5 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:

HEALTH INFORMATICS

- 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
- d. Successful completion of a college-level math, 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**

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828.339.4362 or 800.447.4091, ext. 4362

MEDICAL CODING

The Medical Coding Certificate prepares students to classify and code procedures and diagnoses. Graduates of this program will be able to work primarily in ambulatory care settings such as physician offices, clinics and surgery centers.

CERTIFICATE - C453602**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	211	ICD Coding	2	6	0	4
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
Totals			8	6	0	10

SPRING SEMESTER 1

HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	214	CPT/Other Coding Systems	1	3	0	2
HIT	215	Reimbursement Methodology	1	2	0	2
Totals			4	8	0	7

Total Semester Hour Credits: 17

ADMISSIONS CRITERIA

The applicant must:

- Complete an application for admission to the College (if you are not currently enrolled at SCC). Designate HIT - Medical Coding Certificate - (C453602) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
- Be a high school graduate or have earned a high school equivalency diploma (GED).
- 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.
- Have a grade point average of 2.5 or higher on a 4.0 scale of the most recent academic transcript (high school or postsecondary).
- Meet the Southwestern Community College Placement Test requirement. This may be met by one of the following methods:
 - 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.
 - Obtain 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.
 - Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - Have successfully completed a college-level math, algebra, English and computer literacy course.

FACULTY

Penny Wells, Program Coordinator

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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.

Graduates choosing to continue their education may transfer to Western Carolina University's Social Work Program as juniors. A degree in Social Work increases opportunities for employment in Mental Health, Nursing homes, Veterans services, Hospitals, Elementary and High schools, child protective services, jails and prisons, and Vocational Rehabilitation.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A45380

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
HSE	110	Introduction to Human Services	2	2	0	3
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
SAB	137	Codependency	3	0	0	3
		Totals	14	4	0	16

SPRING SEMESTER 1

ENG	111	Writing & Inquiry	3	0	0	3
HSE	210	Human Services Issues	2	0	0	2
HSE	225	Crisis Intervention	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3

Choose one of the following:

GRO	120	Gerontology	3	0	0	3
HSE	227	Children & Adolescents in Crisis	3	0	0	3
		Totals	17	0	0	17

SUMMER SEMESTER

ENG	114	Professional Research and Reporting	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	8	2	0	9

FALL SEMESTER 2

COM	231	Public Speaking	3	0	0	3
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
HSE	240	Issues in Client Services	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
		Totals	12	4	0	14

SPRING SEMESTER 2

BIO	163	Basic Anatomy & Physiology	4	2	0	5
HEA	110	Personal Health & Wellness	3	0	0	3
HSE	220	Case Management	3	0	0	3
SWK	110	Introduction to Social Work	3	0	0	3
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Seminar I	1	0	0	1
		Totals	14	2	10	16

Total Semester Hour Credits: 72

CERTIFICATE - C45380

This certificate is designed to appeal to those professionals who desire increased knowledge and skills to augment their current education and experience. This certificate will provide participants with information and skills in helping by learning how to develop trust, understanding family dynamics, including domestic violence, and how to help a person through a crisis such as divorce, death, unemployment, or past child abuse. The certificate will provide awareness on how to increase self-growth as a helper of others and how to develop strategies to prevent burnout. Professionals who are likely to be interested in this certificate are youth ministers, pastors, music ministers, preachers, and church lay leaders such as deacons, elders, Sunday school teachers and women ministry leaders. This certificate should also appeal to those who are employed in a human service agency without specific education and training in Human Service skills.

FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
HSE	110	Introduction to Human Services	2	2	0	3
HSE	123	Interviewing Techniques	2	2	0	3
HSE	125	Counseling	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3
SAB	137	Codependency	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
		Totals	15	6	0	18

Total Semester Hour Credits: 18

Admission Criteria for Human Services Technology and Human Services Technology-Substance Abuse:

It is important that all potential applicants for the Human Services and Substance Abuse Treatment Programs understand the admissions process. Please review carefully the information regarding minimum requirements and other pertinent information.

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Human Services Technology AAS Degree (A45380) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply 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.
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 entering 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, English and computer literacy course.
6. Complete a writing sample and email to L_clancy@southwesterncc.edu, prior to interview with Program Director. To obtain the topic for writing sample, email L_clancy@southwesterncc.edu
7. Complete the Gordon Personal Profile Inventory (\$25 fee) through the testing center prior to the interview with the Program Director.
8. Complete interview with the program coordinator. 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.
9. All candidates need to complete their interviews with the Program Director prior to May 22, 2017 for admission to the program in the Fall 2017 semester. An email will be sent by May 24th 2017 confirming admission. For the Spring 2018 semester, all applicants must complete their interviews by November 30, 2017. Emails will be sent by December 7th, 2017 for confirmation of acceptance to the program.

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.

Notes:

1. Applicants are responsible for submitting all the necessary records to the Admissions Office.
2. All students admitted into a health science program may be required, by clinical or work-based 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.

3. 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**Lori Clancy, Program Coordinator**

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Nicole Conner, Clinical Coordinator

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828.339.4319 or 800.447.4091, ext. 4319

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 12 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

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
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
SAB	137	Codependency	3	0	0	3
		Totals	15	6	0	18

SPRING SEMESTER 1

ENG	111	Writing & Inquiry	3	0	0	3
HSE	210	Human Services Issues	2	0	0	2
HSE	225	Crisis Intervention	3	0	0	3
SAB	135	Addictive Process	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
Choose one of the following:						
GRO	120	Gerontology	3	0	0	3
HSE	225	Children & Adolescents	3	0	0	3
		Totals	17	0	0	17

SUMMER SEMESTER

ENG	114	Professional Research and Reporting	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	8	2	0	9

FALL SEMESTER 2

HSE	125	Counseling	2	2	0	3
SAB	125	SAB Case Management	2	2	0	3
SAB	240	SAB Issues in Client Services	3	0	0	3
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Seminar I	1	0	0	1
Choose one of the following:						
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
		Totals	11	4	10	14

SPRING SEMESTER 2

SAB	120	Intake and Assessment	3	0	0	3
SAB	210	Substance Abuse Counseling	2	2	0	3
SAB	250	Prevention & Education	2	0	0	2
SOC	213	Sociology of the Family	3	0	0	3
WBL	121	Work-Based Learning II	0	0	10	1
WBL	125	Work-Based Seminar II	1	0	0	1
		Totals	11	2	10	13

Total Semester Hour Credits: 71

Admission Criteria for Human Services Technology and Human Services Technology-Substance Abuse:

It is important that all potential applicants for the Human Services and Substance Abuse Treatment Programs understand the admissions process. Please review carefully the information regarding minimum requirements and other pertinent information.

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Human Services Substance Abuse AAS Degree (A4538E) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply 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.
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 entering 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, English and computer literacy course.
6. Complete a writing sample and email to l_clancy@southwesterncc.edu, prior to interview with Program Director. To obtain the topic for writing sample, email l_clancy@southwesterncc.edu
7. Complete the Gordon Personal Profile Inventory (\$25 fee) through the testing center prior to the interview with the Program Director.
8. Complete interview with the program coordinator. 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.
9. All candidates need to complete their interviews with the Program Director prior to May 22, 2017 for admission to the program in the Fall 2017 semester. An email will be sent by May 24th 2017 confirming admission. For the Spring 2018 semester, all applicants must complete their interviews by November 30, 2017. Emails will be sent by December 7th, 2017 for confirmation of acceptance to the program.

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.

Notes:

1. Applicants are responsible for submitting all the necessary records to the Admissions Office.
2. 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.
3. 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.

CERTIFICATE - C4538E

This program is designed to appeal to students currently in the Human Services curriculum at Southwestern Community College or for those who are currently employed in Human Services with an associate's degree in a comparative discipline and are interested in gaining specialized training in substance abuse. This educational certificate may also appeal to those professionals with a bachelor's degree in Human Services or Social Work who are interested in pursuing the Certified Substance Abuse Counselor (CSAC) credential from the North Carolina Substance Abuse Professional Practice Board. (NCSAPPB).

<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	137	Co-dependency	3	0	0	3
SAB	210	Substance Abuse Counseling	2	2	0	3
SAB	240	SAB Issues & Client Services	3	0	0	3
		Totals	16	4	0	18

Total Semester Hour Credits: 18

CERTIFICATE - C4538E1 (LCAS Certificate)

This certificate is designed to appeal to human services professionals who have a Master's degree in a related human services field and are interested in pursuing the Licensed Clinical Addiction Specialist (LCAS) credential by gaining the substance abuse specific education hours required by the North Carolina Substance Abuse Professional Practice Board (NCSAPPB).

<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	210	Substance Abuse Counseling	2	2	0	3
SAB	240	SAB Issues & Client Services	3	0	0	3
		Totals	10	4	0	12

Total Semester Hour Credits: 12

Total Contact Hours: 192

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.

Applications and supporting documents must be completed and submitted to the Admissions Office by November 1 for enrollment in the fall semester and by February 10th for spring enrollment of the CSAC and LCAS certificate program of the year in which the student wishes to enroll in the program.

FACULTY**Lori Clancy, Program Coordinator**

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Nicole Conner, Clinical Coordinator

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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

FALL SEMESTER 1

<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
		Totals	7	0	0	7

SPRING SEMESTER 1

EDU	131	Child, Family & Community	3	0	0	3
EDU	153	Health, Safety & Nutrition	3	0	0	3
EDU	234	Infant, Toddlers, & Twos	3	0	0	3
		Totals	9	0	0	9

Total Semester Hour Credits: 16

FACULTY

Linda Aiken, Program Coordinator

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The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

The Mobile Application Developer Track of the Information Technology Curriculum focuses on developing applications that can be viewed on Mobile devices. There is a unique focus on both the Apple and Android side of Mobile devices. Upon completion graduates should qualify for employment as mobile application developers.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A25590M
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
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
NOS	110	Operating System Concepts	2	3	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
		Totals	12	9	0	16

SPRING SEMESTER 1

CIS	115	Intro to Prog & Logic	2	3	0	3
CTI	120	Network & Sec Foundation	2	2	0	3
CTI	150	Mobile Computing Devices	2	2	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	112	Writing/Research in the Disc	3	0	0	3
		Totals	11	10	0	15

SUMMER

MAT	143	Quantitative Literacy	2	2	0	3
<u>Choose one of the following:</u>						
MUS	110	Music Appreciation	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
<u>Choose one of the following:</u>						
ECO	251	Principle of Microeconomics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	8	2	0	9

FALL SEMESTER 2

CSC	151	JAVA Programming	2	3	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3
WEB	151	Mobile Applications Dev I	2	2	0	3
WEB	210	Web Design	2	2	0	3
WEB	213	Internet Mkt & Analytics	2	2	0	3
		Totals	11	9	0	15

SPRING SEMESTER 2

CSC	251	Advanced JAVA Programming	2	3	0	3
CTI	141	Cloud & Storage Concepts	1	4	0	3
CTS	289	System Support Project	1	4	0	3
WBL	111	Work Based Learning I	0	0	10	1
WEB	251	Mobile Applications Dev II	2	2	0	3
		Totals	6	13	10	13

Total Semester Hour Credits: 68

CERTIFICATE - C25590M, C25590MC***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	Intro to Prog & Logic	2	3	0	3
CTI	150	Mobile Computing Devices	2	2	0	3
		Totals	4	5	0	6

FALL SEMESTER 1

CSC	151	JAVA Programming	2	3	0	3
WEB	151	Mobile Applications Dev I	2	2	0	3
		Totals	4	5	0	6

SPRING SEMESTER 2

CSC	251	Advanced JAVA Programming	2	3	0	3
WEB	251	Mobile Applications Dev II	2	2	0	3
		Totals	4	5	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 18 for additional information.

FACULTY**Scott Cline, Program Coordinator**

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Dawn Wick

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The Network Management Track of the Information Technology Curriculum focuses on supporting network infrastructure environments. 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) - A25590N

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
CTI	120	Network & Sec Foundation	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
NOS	110	Operating System Concepts	2	3	0	3
		Totals	10	7	0	13

SPRING SEMESTER 1

CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	140	Virtualization Concepts	1	4	0	3
ENG	112	Writing/Research in the Disc	3	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
		Totals	10	10	0	15

SUMMER

MAT	143	Quantitative Literacy	2	2	0	3
<u>Choose one of the following:</u>						
MUS	110	Music Appreciation	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
<u>Choose one of the following:</u>						
ECO	251	Principle of Microeconomics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	8	2	0	9

FALL SEMESTER 2

CTI	141	Cloud & Storage Concepts	2	2	0	3
CTS	115	Info Sys Business Concepts	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
NET	125	Networking Basics	2	2	0	3
NET	126	Routing Basics	2	2	0	3
NOS	230	Windows Admin I	2	2	0	3
		Totals	12	13	0	18

SPRING SEMESTER 2

CTS	250	User Support & Softw Eval	2	2	0	3
CTS	289	System Support Project	1	4	0	3
NET	225	Routing & Switching I	1	4	0	3
NET	226	Routing & Switching II	1	4	0	3
WBL	111	Work Based Learning I	0	0	10	1
		Totals	5	14	10	13

Total Semester Hour Credits: 68

CISCO CERTIFICATE - C25590N, C25590NC***FALL SEMESTER 1**

<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	2	2	0	3
NET	126	Routing Basics	2	2	0	3
		Totals	4	5	0	6

SPRING SEMESTER 1

NET	225	Routing & Switching I	1	4	0	3
NET	226	Routing & Switching II	1	4	0	3
		Totals	2	8	0	6

Total Semester Hour Credits: 12

OPERATING SYSTEM CERTIFICATE - C25590N2, C25590C2***FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
NOS	110	Operating System Concepts	2	3	0	3
		Totals	2	3	0	3

SPRING SEMESTER 1

NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
		Totals	4	4	0	6

FALL SEMESTER 2

NOS	230	Windows Admin I	2	2	0	3
		Totals	2	2	0	3

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 18 for additional information.

FACULTY**Scott Cline, Program Coordinator**

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Dawn Wick

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The Software and Web Development Track of the Information Technology Curriculum focuses on creating software and web based applications. Graduates should qualify for career opportunities as designers, administrators, or developers in the areas of software and web applications, websites, web services, and related areas of distributed computing.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A25590SD

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
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
NOS	110	Operating System Concepts	2	3	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
		Totals	12	9	0	16

SPRING SEMESTER 1

CIS	115	Intro to Prog & Logic	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	112	Writing/Research in the Disc	3	0	0	3
WEB	115	Web Markup and Scripting	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
		Totals	11	10	0	15

SUMMER

MAT	143	Quantitative Literacy	2	2	0	3
<u>Choose one of the following:</u>						
MUS	110	Music Appreciation	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
<u>Choose one of the following:</u>						
ECO	251	Principle of Microeconomics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	8	2	0	9

FALL SEMESTER 2

CSC	151	JAVA Programming	2	3	0	3
CTS	115	Info Sys Business Concepts	2	2	0	3
DBA	120	Database Programming I	2	2	0	3
WEB	111	Intro to Web Graphics	2	2	0	3
WEB	213	Internet Mkt & Analytics	2	2	0	3
		Totals	10	11	0	15

SPRING SEMESTER 2

CSC	139	Visual BASIC Programming	2	3	0	3
CSC	251	Advanced JAVA Programming	2	3	0	3
CTI	120	Network & Sec Foundation	2	2	0	3
CTS	289	System Support Project	1	4	0	3
WBL	111	Work Based Learning I	0	0	10	1
WEB	225	Content Management Sys	2	2	0	3
		Totals	9	14	10	16

Total Semester Hour Credits: 71

PROGRAMMING CERTIFICATE - C25590SD, C25590DC***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	115	Intro to Prog & Logic	2	3	0	3
		Totals	2	3	0	3

SPRING SEMESTER 1

CSC	139	Visual BASIC Programming	2	3	0	3
		Totals	2	3	0	3

FALL SEMESTER 2

CSC	151	JAVA Programming	2	3	0	3
DBA	120	Database Programming I	2	2	0	3
		Totals	4	5	0	6

SPRING SEMESTER 2

CSC	251	Advanced JAVA Programming	2	3	0	3
		Totals	2	3	0	3

Total Semester Hour Credits: 15

*This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

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The Support & Services Track of the Information Technology Curriculum focuses on help desk and troubleshooting in the Information Technology field. Graduates should qualify for career opportunities as help desk and user support technicians.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A25590SS

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
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Sec Foundation	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
NOS	110	Operating System Concepts	2	3	0	3
		Totals	12	9	0	16

SPRING SEMESTER 1

CIS	115	Intro to Prog & Logic	2	3	0	3
CTI	140	Virtualization Concepts	1	4	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
NOS	130	Windows Single User	2	2	0	3
		Totals	10	12	0	15

SUMMER

MAT	143	Quantitative Literacy	2	2	0	3
<u>Choose one of the following:</u>						
MUS	110	Music Appreciation	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
<u>Choose one of the following:</u>						
ECO	251	Principle of Microeconomics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	8	2	0	9

FALL SEMESTER 2

CTI	141	Cloud & Storage Concepts	2	2	0	3
CTS	115	Info Sys Business Concepts	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	155	Tech Support Functions	2	2	0	3
NOS	230	Windows Admin I	2	2	0	3
		Totals	10	11	0	15

SPRING SEMESTER 2

CTS	130	Spreadsheet	2	2	0	3
CTS	250	User Support & Softw Eval	2	2	0	3
CTS	289	System Support Project	1	4	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
WBL	111	Work Based Learning I	0	0	10	1
		Totals	7	10	10	13

Total Semester Hour Credits: 68

USER SUPPORT CERTIFICATE - C25590SS, C25590SC***FALL SEMESTER 1**

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
CTS	120	Hardware/Software Support	2	3	0	3
CTS	155	Tech Support Functions	2	2	0	3
		Totals	4	5	0	6

SPRING SEMESTER 1

CTS	115	Info Sys Business Concepts	2	2	0	3
CTS	250	User Support & Softw Eval	2	2	0	3
		Totals	4	4	0	6

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 18 for additional information.

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A course of study that prepares students to use basic engineering principles and technical skills in developing and testing automated, servomechanical and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures.

Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations. Graduates will specialize in technician work related to PLC's (Programmable Logic Controllers), robots, and three phase power and control.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A40350

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
ATR	112	Intro to Automation	2	3	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ISC	112	Industrial Safety	2	0	0	2
MAT	121	Algebra/Trigonometry I	2	2	0	3
		Totals	10	8	0	13

SPRING SEMESTER 1

CIS	110	Intro to Computers	2	2	0	3
ELC	128	Intro to PLC	2	3	0	3
HUM	110	Technology & Society	3	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	3
MEC	130	Mechanisms	2	2	0	3
		Totals	11	9	0	15

SUMMER SEMESTER

COM	110	Intro to Communication	3	0	0	3
PSY	150	General Psychology	3	0	0	3
<u>Choose one of the following:</u>						
EGR	285	Design Project	0	4	0	2
WBL	111	Work-Based Learning I	0	10	0	1
		Totals	6	4-10	0	7-8

FALL SEMESTER 2

ELC	132	Electrical Drawings	1	3	0	2
ELC	213	Instrumentation	3	2	0	4
ENG	111	Writing and Inquiry	3	0	0	3
HYD	110	Hydraulics/Pneumatics	2	3	0	3
PHY	131	Physics Mechanics	3	2	0	4
WBL	121	Work-Based Learning II	0	10	0	1
		Totals	12	20	0	17

SPRING SEMESTER 2

ATR	211	Robot Programming	2	3	0	3
ATR	219	Automation Troubleshooting	1	3	0	2
ELC	117	Motors & Controls	2	6	0	4
ELC	228	PLC Application	2	6	0	4
		Totals	7	18	0	13

Total Semester Hour Credits: 65-66

BASIC CERTIFICATE - C40350

<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
ATR	112	Intro to Automation	2	3	0	3
ELC	128	Intro to PLC	2	3	0	3
ELC	131	Circuit Analysis	3	3	0	4
ISC	112	Industrial Safety	2	0	0	2
MEC	130	Mechanisms	2	2	0	3
		Totals	12	11	0	16

Total Semester Hour Credits: 16

BASIC CERTIFICATE - CCP - C40350CP*

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ATR	112	Intro to Automation	2	3	0	3
ELC	128	Intro to PLC	2	3	0	3
ELC	131	Circuit Analysis	3	3	0	4
ISC	112	Industrial Safety	2	0	0	2
MEC	130	Mechanisms	2	2	0	3
		Totals	11	10	0	15

Total Semester Hour Credits: 15

INTERMEDIATE CERTIFICATE - C403501

CIS	110	Intro to Computers	2	2	0	3
ELC	132	Electrical Drawings	1	3	0	2
ELC	213	Instrumentation	3	2	0	4
HYD	110	Hydraulics/Pneumatics	2	3	0	3
<u>Choose one of the following:</u>						
EGR	285	Design Project	0	4	0	2
WBL	111	Work-Based Learning I	0	10	0	1
		Totals	8	14-20	0	13-14

Total Semester Hour Credits: 13-14

ADVANCED CERTIFICATE - C403502

ATR	211	Robot Programming	2	3	0	3
ATR	219	Automation Troubleshooting	1	3	0	2
ELC	117	Motors & Controls	2	6	0	4
ELC	228	PLC Application	2	6	0	4
<u>Choose one of the following:</u>						
EGR	285	Design Project	0	4	0	2
WBL	111	Work-Based Learning I	0	10	0	1
WBL	121	Work-Based Learning II	0	10	0	1
		Totals	7	28	0	14-15

Total Semester Hour Credits: 14-15

GENERAL EDUCATION CERTIFICATE - C403503

COM	110	Intro to Communication	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
HUM	110	Technology & Society	3	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	16	4	0	18

Total Semester Hour Credits: 18

Mechatronics is a stackable credentials program. This means that students may be awarded the AAS Degree upon successful completion of the four Mechatronics certificates and PHY 131.

* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to page 18 for additional information.

FACULTY

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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

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
BIO	163	Basic Anatomy and Physiology I	4	2	0	5
ENG	111	Writing & Inquiry	3	0	0	3
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	1	2	0	2
		Totals	16	6	0	19

SPRING SEMESTER 1

MAT	143	Quantitative Literacy	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	3	4	0	5
		Totals	11	10	0	16

SUMMER SEMESTER

ENG	114	Professional Research and Reporting	3	0	0	3
MED	270	Symptomatology	2	2	0	3
MED	276	Patient Education	1	2	0	2
		Totals	6	4	0	8

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	3	0	0	3
		Totals	10	7	0	13

SPRING SEMESTER 2

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
PSY	150	General Psychology	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
		Totals	10	7	0	14

Total Semester Hour Credits: 70

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	1	2	0	2
		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 18 for additional information.

Graduates of the Medical Assistant Certificate program are NOT eligible to sit for the American Association of Medical Assistants' Certification Examination.

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. If you are not currently enrolled at SCC complete an application to the college. Designate Medical Assisting AAS Degree (A45400) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply 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 2.0 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, English and computer literacy course.
6. It is recommended that the applicant spend observation time in a medical assisting environment.
 7. Must take the TEAS - Allied Health Exam. The TEAS - Allied Health Exam must have been taken within the past three years and may only be taken once per academic year. Details for cost, 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 will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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

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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

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
CHM	130	General, Organic, and Biochemistry	3	0	0	3
CHM	130A	General, Organic, and Biochemistry Lab	0	2	0	1
MAT	143	Quantitative Literacy	2	2	0	3
MLT	110	Introduction to MLT	2	3	0	3
MLT	111	Urinalysis & Body Fluids	1	3	0	2
MLT	116	Anatomy & Medical Terminology	5	0	0	5
		Totals	14	10	0	18

SPRING SEMESTER 1

MLT	120	Hematology/Hemostasis I	3	3	0	4
MLT	126	Immunology & Serology	1	2	0	2
MLT	130	Clinical Chemistry I	3	3	0	4
MLT	140	Introduction to Microbiology	2	3	0	3
MLT	251	MLT Practicum I (Urinalysis/Lab Operations)	0	0	3	1
MLT	253	MLT Practicum I (Phlebotomy clinic)	0	0	9	3
		Totals	9	11	12	17

SUMMER SEMESTER

ENG	111	Writing & Inquiry	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	9	0	0	9

FALL SEMESTER 2

ENG	114	Professional Research & Reporting	3	0	0	3
MLT	127	Transfusion Medicine	2	3	0	3
MLT	220	Hematology/Hemostasis II	2	3	0	3
MLT	230	Clinical Chemistry II	2	3	0	3
MLT	240	Special Clinical Microbiology	2	3	0	3
		Totals	11	12	0	15

SPRING SEMESTER 2*

MLT	215	Professional Issues	1	0	0	1
MLT	261	MLT Practicum II	0	0	3	1
MLT	263	MLT Practicum II (Microbiology)	0	0	9	3
MLT	273	MLT Practicum III (Blood/Immunology/Serology)	0	0	9	3
MLT	276	MLT Practicum III (Hematology/Hemostasis/Chem)	0	0	18	6
		Totals	1	0	39	14

Total Semester Hour Credits: 73

Notes:

1. Students successfully completing MLT 110 and MLT 253 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.
3. Students who can provide documentation of current national certification in Phlebotomy (e.g., ASCP BOC) may be waived from MLT 253.

4. *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.

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 **Jan. 31** of the year in which the student wishes to enroll in the program. Students who complete Phase I requirements after the deadline will be considered for acceptance if slots are available. Please check with the Admissions Office about the enrollment availability.

Non-Resident Student Restriction on Enrollment & State Authorization

- For the Medical Laboratory Technology (MLT) online program with a clinical requirement, the College has clinical agreements in the state of Georgia. Only residents of North Carolina and Georgia may enroll in this program. For more information, see College Catalog, Admissions/Enrollment section titled Non-Resident Student Restriction on Enrollment and State Authorization.

PHASE I – To be completed by Jan. 31

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Medical Laboratory Technology AAS Degree (A45420) as the program of interest. Applications must be updated annually by applicants who were not accepted the previous year. If you are a current student, see Admissions to complete a change of major form if you wish to apply 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 **2.8 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.

- d. Successful completion of a college-level math, English and computer literacy course.
6. Completion of 8 hours of observation is recommended (not required).
7. Have a computer or access to a computer that is up to date (it does not have to be new, but it needs to be updated) with a web browser. Compatible web browsers are (Internet Explorer and Mozilla Firefox) Google Chrome is functional, however, not fully compatible yet.
8. Have access to a word processing application like Microsoft Office 2010, Open Office (free-ware) or use Google Docs, included within the “Quick Launch Pad” in your “myscc” page. If you have any questions regarding your online access to our college services, please review the online learning technical requirements here, or contact our IT Help Desk at 828.339.4409.
9. Have access to a scanner to upload completed assignments to Blackboard.
10. Local students: within driving distance must attend on-campus labs, typically two days/week, day classes only. No MLT night classes available at this time.
11. **Distant students:** We are only able to accept distant students from NC and GA at this time. Distant lab students are required to be currently employed in a hospital lab (e.g., Phlebotomist/Lab Assistant) that offers all areas of laboratory practice: Phlebotomy, Hematology/Hemostasis, Urinalysis, Chemistry, Microbiology and Blood Bank/Serology. As a part of Phase I Admission Requirements, distant students must complete the following and submit by the **January 31 deadline:**
 - a. Provide their employer’s statement of support. This statement must indicate the employer will support the student in their lab and clinical rotations for the completion of the program. Submit this statement to the MLT Program Coordinator at the college.
 - b. Complete and submit a “Lab Site Information Form” which will detail the contact information for their laboratory site. This form may be found online at the College’s MLT website and should be submitted to MLT Program Coordinator.

PHASE II

Preliminary selection for 15 slots will be based on those students with the top grade point averages who have completed Phase I requirements by January 31. Additional consideration will be given to students that have completed a college level chemistry and math course. The identified individuals will receive provisional acceptance and move to Phase III of the admission requirements.

PHASE III

An Acceptance Packet from Admissions is sent (by mail) to those individuals who successfully complete Phase II requirements. The acceptance packet will include the following items with due dates for completion:

- Provisional Acceptance Letter
- Acknowledgement of Acceptance form – note due date on form
- MLT Lab Site Information form – note due date on form
- *SCC Medical/Health Forms – **Due August 1**
- Essential Functions (self-appraisal) form to be completed by the student – **Due August 1**

*The medical/health forms must be completed by appropriate medical personnel and must indicate that you are capable of meeting the physical requirements of the program.

The items on the following Check-off list must be submitted to the Program Coordinator by **August 1.**

- Medical/Health Forms including documentation of a physical, health history, immunizations to include the first Hepatitis B vaccine in the series. Note: if you have had Chicken Pox (and not the vaccine) then you will need to provide an Varicella-Zoster antibody

titer to proof immunity.

- Receipt/proof of purchase for accident and malpractice insurance. This insurance can be purchased in the College Business office.
- Essential Functions (self-appraisal) form
- Signed signature sheet at the end of the Program Student Policy Manual. See Student Policy Manual section following below.

Students that fail to submit the completed forms above will not be able to register for program courses.

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, two days per week, or in the student's geographical area at a pre-approved clinical facility.

Clinical rotations take place in the second and final semester of the program and may be completed in the student's geographical area (NC or GA only) at a pre-approved clinical facility. Distant students must be associated with a laboratory that is willing to support them in their laboratory and clinical rotations 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 2.8 on a 4.0 scale. Failure to meet these standards will prevent normal progression through the program.

STUDENT POLICY MANUAL

The student policy manual link is available online at the college's MLT website. 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, 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119; Phone: 847.939.3597 or 773.714.8880, Fax: 773.714.8886; Website: www.naacls.org

NOTES

1. All students admitted into a health science program will be required to submit a criminal background check and drug testing prior to enrollment each academic year. 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**

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The Medical Office Administration curriculum prepares individuals for employment as medical administrative personnel in the areas of medical office, medical billing and coding, dental office, patient services, and medical documents.

Course work includes medical terminology, computer applications, medical office management, medical coding, medical insurance and billing, medical legal and ethical issues, oral and written communication, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of medical office positions in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other healthcare related organizations. Upon graduation, students may be eligible to sit for industry recognized certification exams. 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	Student Success	1	0	0	1
CIS	110	Introduction to Computers	3	0	0	3
OST	131	Keyboarding	1	2	0	2
OST	136	Word Processing	2	2	0	3
OST	164	Office Editing	3	0	0	3
		Totals	10	4	0	12

SPRING SEMESTER 1

ENG	111	Writing and Inquiry	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	149	Medical Legal Issues	3	0	0	3
OST	184	Records Management	2	2	0	3

Choose one of the following:

MAT	110	Math Measurement and Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods	3	2	0	4
		Totals	13-14	4	0	15-16

SUMMER SEMESTER

MED	121	Medical Terminology I (first half)	3	0	0	3
MED	122	Medical Terminology II (second half)	3	0	0	3

Choose one of the following:

PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
		Totals	9	0	0	9

FALL SEMESTER 2

CTS	130	Spreadsheet	2	2	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	114	Prof Research & Reporting	3	0	0	3
OST	148	Medical Insurance & Billing	3	0	0	3
OST	286	Professional Development	3	0	0	3
		Totals	13	5	0	15

SPRING SEMESTER 2

BUS	125	Personal Finance	3	0	0	3
BUS	260	Business Communications	3	0	0	3
OST	288	Medical Office Admin Capstone	2	2	0	3
OST	289	Office Administration Capstone	2	2	0	3

Choose one of the following:

HUM	115	Critical Thinking	3	0	0	3
HUM	230	Leadership Development	3	0	0	3
		Totals	13	4	0	15

Total Semester Hour Credit: 66-67

DIPLOMA - D25310

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	Student Success	1	0	0	1
CIS	110	Introduction to Computers	3	0	0	3
OST	131	Keyboarding	1	2	0	2
OST	136	Word Processing	2	2	0	3
OST	164	Office Editing	3	0	0	3
		Totals	10	4	0	12

SPRING SEMESTER 1

BUS	260	Business Communications	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
OST	149	Medical Legal Issues	3	0	0	3

Choose one of the following:

MAT	110	Math Measurement and Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods	3	2	0	4
		Totals	11-12	2	0	12-13

FALL SEMESTER 2

BUS	125	Personal Finance	3	0	0	3
MED	121	Medical Terminology I (first half)	3	0	0	3
MED	122	Medical Terminology II (second half)	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	148	Medical Insurance & Billing	3	0	0	3
		Totals	15	0	0	15

Total Semester Hour Credit: 39-40

FACULTY

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Carolyn Porter,

Business Department Chair

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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	152	Statistical Methods I	3	2	0	4
PHY	125	Health Sciences Physics	3	2	0	4
		Totals	13	6	0	16

FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinical</u>	<u>Credit</u>
ENG	111	Writing & Inquiry	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	6	6	9	11

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	0	0	15	5
		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	1	3	0	2
		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	2	0	0	2
		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. 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 15

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Medical Sonography AAS Degree (A45440) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, English and computer literacy course.
6. Must take the TEAS - Allied Health Exam. The TEAS - Allied Health Exam must have been taken within the past three years and may only be taken once per academic year. 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 10 hours 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. If you are currently unable to attend our SCC lab, you may complete the observation hours at 9 local hospital or outpatient centers. A signed observation form needs to be completed from that facility. Observation forms are available upon request at d_eavenson@southwesterncc.edu.
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)
 TEAS - Allied Health Exam 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 125	A (40 pts) B (30 pts) C (15 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 152 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
ATI TEAS	100 pts
Interview	75 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 will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. The results of these tests could affect the student's ability to progress in the program.
5. 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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828.339.4323 or 800.447.4091, ext. 4323

The Nurse Aide curriculum prepares individuals to work under the supervision of licensed nursing professionals in performing nursing care and services for persons of all ages.

Topics include growth and development, 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.

Upon completion, the student may be eligible for listing as a Nurse Aide I and other selected Nurse Aide registries as determined by the local program of study.

NURSE AIDE CERTIFICATE – C45840, C45840CP*

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: www.southwesterncc.edu/health-sciences/nurse-aide/nurse-aide-certificate

FALL SEMESTER 1

<u>Prefix</u>	<u>Number</u>	<u>Title</u>	<u>Class</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credit</u>
NAS	101	Nurse Aide I	3	4	3	6
		Totals	3	4	3	6

SPRING SEMESTER 1

NAS	102	**Nurse Aide II	3	2	6	6
NAS	106	Geriatric Aide	5	0	3	6
		Totals	8	2	9	12

Total Hour Credits: 18

* This certificate or pathway is offered to high school students through the Pathways to Success and Career & College Promise initiatives. Please refer to page 18 for additional information.

**Students must have a GED or High School diploma before they complete the NAII course in order to be eligible to receive certification and be listed by the North Carolina Board of Nursing as a Nurse Aide II.

ADMISSIONS CRITERIA

All applicants must:

- If you are not currently enrolled at SCC, complete an application to the college. Designate Nurse Aide Certificate (C45840) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
- Meet the Southwestern Community College Placement Test requirement for reading comprehension with a passing score ≥ 55 . The test is administered on the Jackson and Macon Campuses free of charge. To schedule a test session, contact Testing Services at 339.4332. If you are unsuccessful in achieving the appropriate cut-off scores, please see the academic retest policy.
- All 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

The Nurse Aide Certificate has limited enrollment. Students will be accepted into the courses based on application submission date and meeting the college testing requirement.

Any student interested in completing Nurse Aide courses outside of the certificate program, please visit: www.southwesterncc.edu/continuing-education for availability.

PROGRESSION CRITERIA

In order to progress to the Spring Semester, all students must:

- Be currently licensed as a Certified Nurse Aide I with the North Carolina Division of Health Service Regulation with no substantiated findings of abuse, neglect or misappropriation of resident property.
- Must have current CPR certification for Healthcare Providers that must remain current through clinical rotation.

CLINICAL EDUCATION

Clinical education will be provided at cooperating hospitals or health care facilities within the area served by the College. Transportation and associated expenses are the sole responsibility of the student.

NOTES

1. Applications must be updated annually by applicants who were not accepted the previous year.
2. All students admitted into a health science program will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. The results of these tests could affect the student's ability to progress in the program.
3. 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

Donna Pruitt Conner, Program Coordinator

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828.339.4459 or 800.447.4091, ext. 4459

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 (ADN) 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 ADN 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. See the Nursing web page for approximate cost of program.

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.

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. All nursing courses must be taken in the order they appear in the 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>
ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy and Physiology I	3	3	0	4
NUR	111	Intro to Health Concepts	4	6	6	8
NUR	117	Pharmacology I	1	3	0	2
PSY	150	General Psychology	3	0	0	3
		Totals	12	12	6	18

SPRING SEMESTER 1

BIO	169	Anatomy and Physiology II	3	3	0	4
ENG	111	Writing & Inquiry	3	0	0	3
NUR	112	Health-Illness Concepts ~ 1st 8 weeks	3	0	6	5
NUR	114	Holistic Health Concepts ~ 2nd 8 weeks	3	0	6	5
		Totals	12	3	12	17

SUMMER SEMESTER

ENG	114	Professional Research and Reporting	3	0	0	3
NUR	113	Family Health Concepts	3	0	6	5
		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
PSY	241	Developmental Psychology	3	0	0	3
		Totals	11	2	12	16

SPRING SEMESTER 2

HUM	115	Critical Thinking	3	0	0	3
NUR	213	Complex Health Concepts	4	3	15	10
		Totals	7	3	15	13

Total Semester Hour Credits: 72

ADMISSIONS REQUIREMENTS

All applicants for admission to the ADN 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.

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 Phase I deadline, if applicable. 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 January 31

The criteria for admission to the nursing program include:

- If you are not currently enrolled at SCC complete an application to the college. Designate Nursing AAS Degree (A45110) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
- 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.)
- Must take the ATI TEAS Exam. A minimum score of 65 on the TEAS. The TEAS must have been taken within the past three years and may only be taken once per academic year.
- Evidence of completion of a high school algebra, or college-level math, biology, and a general chemistry at the high school level or above with a grade of "C" or better.
- Documentation of current licensure or certification in a health care related field is required and must be submitted to admissions prior to the January 31 deadline. Those listed in Phase II are all accepted. Other medical related certificates/licensures will be considered on an individual basis by admissions and the program director.
- Evidence of a cumulative GPA of 3.0 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 100 points for ATI TEAS 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 115 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/Paramedic
 - 1 point – Certified Medical Assistant
 - 1 point – Bachelor Degree or higher

- Up to 25 points for interview (45 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 will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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 65 on the ATI TEAS. The TEAS must have been taken within the past three years and may only be taken once per academic year. (See TEAS 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 (to be completed 90 days prior to seeking reentry):

Additional requirements:

- Applicants must submit a new college application.
- Applicants must re-enroll within one year of leaving the program.
- The applicant must declare his/her desire to re-enter the program in writing to 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 do so within one year of the date the original course was taken and may only reenter one time.
- 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 GPA and TEAS will be utilized and those students with the highest average will be accepted in the program.

Advanced Placement Students: To be completed by October 1

Licensed Practical Nurse to RN

Paramedic to RN Bridge Program (pending approval)

Additional Requirements:

- Possess a current, valid, North Carolina-eligible LPN or Paramedic license
- Have at least 1 year of experience as a LPN or Paramedic
- Complete a nursing transitions course (NUR 214 or NUR 215 or equivalent prior to acceptance into the nursing program)
- Submit evidence of completion of an algebra and 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, PSY 150, PSY 241 and a Humanities course.

Paramedics must have an Associate in Applied Science Degree in Emergency Medical Science.

In the event the number of qualified Advanced Placement applicants exceeds the number of spaces available, the slots will be filled based on GPA and TEAS score.

SPRING SEMESTER 1

Choose a track: LPN to RN or Paramedic to RN

NUR	214	Nursing Transition Concepts	3	0	3	4
NUR	215	Paramedic/RN Bridge Concepts	3	3	6	6

SUMMER SEMESTER

NUR	113	Family Health Concepts	3	0	6	5
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FALL SEMESTER 1

NUR	211	Health Care Concepts	3	0	6	5
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NUR	212	Health Systems Concepts	3	0	6	5
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SPRING SEMESTER 2

NUR	213	Complex Health Concepts	4	3	15	10
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Transfer students (to be completed 90 days prior to seeking transfer):

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 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 do so within one year of the date the course was taken.
- 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 GPA and ATI TEAS score. The candidates with the highest numerical score will be admitted.

FACULTY**Barbara Connell, Program Coordinator**

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Kimi Walker

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ADMISSION TO WNC RIBN

Thank you for your interest in the WNC RIBN Nursing option. Students applying to WNC RIBN must meet dual admission requirements set forth collaboratively by SCC and WCU.

WNC RIBN will accept applications through January 31 for the RIBN class that begins fall semester. For more information about applying to RIBN, please contact the RIBN advisor.

Admission to WNC RIBN is highly competitive. All students must meet the following minimum requirements to be eligible to apply:

- General acceptance to Western Carolina University: requires if less than 24 years of age that the student has taken these courses—4 units of English; 2 units of social studies—one being US History; 4 units of math—Algebra 1, Algebra 2, Geometry, and an advanced math beyond Algebra 2; 3 units of science—such as, life science, physical science, chemistry, biology— must have taken one science with a lab; 2 units of a language (must be 2 units of the same language) other than English.
- SAT Critical Reading—minimum 500 score required which is three years or less during the application period
- Cumulative GPA of 3.0 on a 4.0 scale. If a student has less than 20 credit hours of college coursework, then this requirement will default to the high school **unweighted** GPA.
- All applicants to WNC RIBN must take the ATI TEAS (Test of Essential Academic Skills). Students may take the ATI TEAS after the WNC RIBN Advisor has determined eligibility to apply. RIBN applicants must score 70 or higher on the ATI TEAS examination. For more information about the TEAS, please visit: www.atitesting.com/Solutions/PreNursingSchool/TEAS.aspx
- It is highly recommended that all RIBN applicants interview to be assured a seat in the SCC Nursing Program.
- All applicants must do an SCC application and apply to the nursing program.

WNC RIBN will dually admit and enroll you at Southwestern Community College and Western Carolina University and provide you with a four year, seamless associate to baccalaureate nursing education. Unlike in a transitional BSN program, you will have the opportunity to begin working as an RN at the end of your third year in this option and pay mostly community college tuition rates.

WNC RIBN makes an associate and bachelor's degree in nursing both affordable and accessible. The first three years of WNC RIBN will be hosted on SCC's campus with one class completed online through WCU each semester. Upon successful completion of the first three years, you will then finish your fourth year of classes through WCU.

Students are required to:

1. Hold a documented, current, unrestricted credential as a Nurse Aide I (NAI) from the North Carolina Nurse Aide Registry and the Division of Health Service Regulation or other health care current licensure.
2. Maintain dual admission and continued enrollment at both SCC and WCU by completing at least one WCU course each semester (Fall/Spring) during years 1 through 3.
3. Maintain a GPA of 2.5 or greater to progress in the RIBN option.
4. Maintain full-time enrollment each semester if a recipient of the NC Forgivable Education Loan Program.
5. Home school will be SCC years 1, 2, and 3.
6. Year 1: enroll in general education courses at SCC and WCU as advised by the RIBN Nursing Student Advisor

7. Year 2 and 3: enroll in Associate Degree Nursing courses at SCC and continue enrollment in WCU courses as advised by RIBN Nursing Student Advisor.
8. Year 4: home school will be WCU
9. Successfully pass NCLEX–RN to progress to year 4.
10. See the RIBN nursing advisor for the recommended course sequence.

This program is approved by the
North Carolina Board of Nursing
PO Box 2129, Raleigh, NC 27602
919.782.3211, www.ncbon.com

For more specific information about the RIBN nursing option, please read the Admission to WNC RIBN Frequently Asked Questions (FAQ) pages.

A45110RB

FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy and Physiology I	3	3	0	4
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
Liberal Arts @ WCU			3	0	0	3
<u>Choose one of the following:</u>						
MAT	152	Statistical Methods OR	3	2	0	4
MAT	171	Precalculus Algebra	3	0	0	4
Totals			16	10	0	16

SPRING SEMESTER 1

BIO	169	Anatomy and Physiology II	3	3	0	4
CHM	132	Organic and Biochemistry	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
Liberal Arts @WCU			3	0	0	3
<u>Choose one of the following:</u>						
HEA	110	Personal Health/Wellness	3	0	0	3
PED	110	Fit and Well for Life	1	2	0	2
Totals			13-15	6	0	16-17

SUMMER SEMESTER 1

CNA 1 Course Completion

FALL SEMESTER 2

BIO	175	General Microbiology	2	2	0	3
NUR	111	Introduction to Health Concepts	4	6	6	8
NUR	117	Pharmacology	1	3	0	2
Liberal Arts @WCU			3	0	0	3
Totals			10	11	6	16

SPRING SEMESTER 2

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	241	Developmental Psychology	3	0	0	3
Liberal Arts @WCU			3	0	0	3
Totals			12	0	12	16

SUMMER SEMESTER 2

NUR	113	Family Health Concepts	3	0	6	5
NSG	346	Pathophysiology	3	0	0	3
Totals			6	0	6	8

FALL SEMESTER 3

ENG	114	Professional Research and Reporting	3	0	0	3
NUR	211	Health Care Concepts	3	0	6	5
NUR	212	Health System Concepts	3	0	6	5
Liberal Arts @WCU			3	0	0	3
Totals			12	0	12	16

SPRING SEMESTER 3

NUR	213	Complex Health Concepts	4	3	15	10
Liberal Arts@WCU			3	0	0	3
<u>Choose one of the following:</u>						
COM	110	Introduction to Communication	3	0	0	3
COM	231	Public Speaking	3	0	0	3
Totals			10	3	15	16

SUMMER SEMESTER 3 Transition to Practice**FALL SEMESTER 4** WCU Courses

NSG	327	Essentials of Baccalaureate Nursing Practice				4
NSG	322	Concepts of Geriatric Nursing				2
NSG	302	Community Health				3
NSG	305	Intervention Project				1
NSG	384	Practicum				2

SPRING SEMESTER 4

NSG	328	Essentials of Baccalaureate Nursing Practice				3
NSG	329	Essentials of Baccalaureate Nursing Practice				3
NSG	471	Research Process				2
NSG	472	Critical Reading				2
NSG	473	Clinical Application				2

FACULTY**Linda Deeb, RIBN Student Success Advisor**

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Barbara Connell, SCC Nursing Program Coordinator

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828.339.4307



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 - 6 SHC for AAS degree or three SHC for diploma are required

Prefix	Number	Title	Class	Lab	Clinical	Credit
ENG	111	Writing and Inquiry	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3

Humanities / Fine Arts - 3 SHC required for AAS degree

Choose one of the following:

HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3

Social / Behavioral Science - 3 SHC required for AAS degree

Choose one of the following:

PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3

Natural Science / Mathematics - 3 SHC required for AAS degree

Choose one of the following:

MAT	110	Mathematical Measurement & Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
General Education Totals			14	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	2	2	0	3
ISC	121	Environmental Health and Safety	3	0	0	3
Totals			18	6	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	0	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	2	0	0	2
Totals			12	4	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	135	Principles of Supervision	3	0	0	3
BUS	240	Business Ethics	3	0	0	3
OST	136	Word Processing	2	2	0	3
WBL	114	Work-Based Learning I	0	0	40	4
Totals			12	2	40	17

Major Courses Totals: 35 Total Semester Hour Credits: 67

DIPLOMA - D55320

<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
EDU	161	Introduction to Exceptional Children	3	0	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	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
ISC	121	Environmental Health and Safety	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	37	10	0	42

Total Semester Hour Credits: 42

CERTIFICATE - C55320

<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	2	2	0	3
ISC	121	Environmental Health and Safety	3	0	0	3
		Totals	15	6	0	18

Total Semester Hour Credits: 18

ADVISOR

Sheri Turk

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828.339.4210 or 800.447.4091, ext. 4210

The Occupational Therapy Assistant curriculum prepares individuals to work under the supervision of a registered/licensed occupational therapist in screening, assessing, planning, and implementing treatment and documenting progress for clients receiving occupational therapy services.

Course work includes human growth and development, conditions which interfere with activities of daily living, theory and process of occupational therapy individual/group treatment activities, therapeutic use of self, activity analysis, and grading/adapting activities and environments.

Graduates may be eligible to take the national certification examination for practice as certified occupational therapy assistants. Employment opportunities include hospitals, rehabilitation facilities, long-term/extended care facilities, sheltered workshops, schools, home health programs and community programs.

OCCUPATIONAL THERAPY ASSISTANT – A45500

PRE-REQUISITE

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1

FALL SEMESTER I

BIO	168	Anatomy and Physiology I	3	3	0	4
ENG	111	Writing & Inquiry	3	0	0	3
OTA	110	Fundamentals of OT	2	3	0	3
OTA	120	OT Media I	1	3	0	2
OTA	130	Assessment Skills	2	3	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	14	12	0	18

SPRING SEMESTER I

BIO	169	Anatomy & Physiology II	3	3	0	4
OTA	140	Professional Skills I	0	3	0	1
OTA	150	Peds Concepts & Interventions	2	3	0	3
OTA	170	Physical Conditions	2	3	0	3
PSY	241	Developmental Psychology	3	0	0	3
		Totals	10	12	0	14

SUMMER SEMESTER

ENG	114	Professional Research & Reporting	3	0	0	3
OTA	161	Fieldwork I Placement 1	0	0	3	1
OTA	162	Fieldwork I Placement 2	0	0	3	1
OTA	240	Professional Skills II	0	3	0	1
PSY	281	Abnormal Psychology	3	0	0	3
		Totals	6	3	6	9

FALL SEMESTER II

HUM	115	Critical Thinking	3	0	0	3
OTA	180	Psychosocial Conditions	2	3	0	3
OTA	220	OT Media II	1	6	0	3
OTA	250	Adult Concepts & Interventions	2	3	0	3
OTA	163	Fieldwork I Placement 3	0	0	3	1
		Totals	8	12	3	13

SPRING SEMESTER II

OTA	260	Level II Fieldwork II Placement 1	0	0	18	6
OTA	261	Level II Fieldwork II Placement 2	0	0	18	6
OTA	280	Professional Transitions	0	2	0	1
		Totals	0	2	36	13

Total Semester Hour Credits: 68

ADMISSIONS CRITERIA: To be completed by March 15

The program has a limited enrollment and a selective admissions process including three phases. Classes are admitted in the fall of each year. Applications and supporting documents listed in Phase I below must be completed and submitted by March 15 of the year the student wishes to apply to 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 March 15

1. If you are not currently enrolled at SCC complete an application to the college. Designate Occupational Therapy Assistant AAS Degree (A45500) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
2. Graduate from high school or have earned a high school equivalency diploma (GED). May apply to the program during senior year of high school if enrolled in college classes.
3. Request official transcripts from high school and college/universities attended be mailed to the Registrar's office (1.800.447.4091) or 828.339.4219. Request an unofficial copy be sent to you at home if you would like a copy.

SCC, Registrar's Office, 447 College Dr., Sylva, NC 28779

4. Achieve a minimum of 2.5 GPA with 10 or more credits. (GPA will be determined from the most recent institution where at least 10 credit hours of non-developmental courses have been completed).
5. Complete all developmental course work (if required based on placement testing) Testing Office (1.800.447.4091 or 828.339.4332). All DRE coursework must be completed. DMA 10-50 must be completed.
6. Have access to a computer that is up to date with current web browsers such as Internet Explorer and Mozilla FireFox. Have consistent access to a word processing application like Microsoft Office. If you have any questions regarding your online access to our college services, review the online learning technical requirements or contact the IT helpdesk at 828.339.4409.
7. Must take the ATI-TEAS Exam. The ATI-TEAS must have been taken within the past three years and may only be taken once per academic year. 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. Refer to testing section in the catalog.
8. Complete a maximum of six hours of observation in occupational therapy and submit the completed observation form. The observation form may be obtained from OTA faculty.
9. Applicants must be able to meet all Essential Functions required to complete the Occupational Therapy Assistant Program and become employable. These essential functions are provided to help students assess the appropriateness of this career individually. A prospective student with a disability that is concerned that the disability may impact his or her ability to perform one or more of these skills, provide patient care, or participate in other job activities, is encouraged to contact Tonya Basse, Student Disability Services Coordinator at 828.339.4326. For more information on essential functions of the Occupational Therapy Assistant: occupationalinfo.org
 - Critical Thinking/Problem Solving: Critical thinking and problem-solving ability sufficient for clinical judgment.
 - Interpersonal Skills: Ability to interact with individuals, families, and groups successfully from a variety of social, emotional, cultural and intellectual backgrounds.
 - Communication: Communication skills sufficient for acceptable written, verbal and non-verbal skills to communicate with individuals, families, and groups.
 - Mobility and Strength: Physical mobility and strength sufficient to move through the clinical setting, to move patients and equipment, to use one's body for treatment without the use of equipment, and to ensure patient safety during treatment.
 - Motor Skills: Gross and fine motor abilities/coordination to provide safe and effective treatment.
 - Hearing: Auditory acuity sufficient to monitor and treat patients and to monitor

safety warning signals on equipment.

- Visual Acuity: Visual acuity sufficient to monitor and treat patients and to monitor safety warning signals on equipment.
- Tactile Skills: Tactile skills sufficient to monitor and treat patients and to perform measurements.
- Emotional: Must possess emotional stability sufficient to maintain composure in stressful situations.

Please Note: In order to participate in clinical education experiences at health care facilities, students will be required to submit proof of immunizations, annual TB test, results of a criminal background check and annual drug screen at their own expense.

The OTA program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE). Graduates of the OTA program will be eligible to sit for the national certification examination for the occupational therapy assistant, which is administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of the NBCOT certification exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, most states require licensure in order to practice. Licensure generally requires initial certification by the NBCOT. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination and obtain state licensure.

ACOTE

4720 Montgomery Lane, Suite 200 Bethesda, MD 20814-3449
301.652.6611, ext. 2914 • www.acoteonline.org

PHASE II

ALL OF THE ABOVE PROGRAM ADMISSIONS REQUIREMENTS MUST BE COMPLETE AND RECEIVED BY THE ADMISSIONS OFFICE BY MARCH 15. After March 15 our admissions office will send the OTA faculty all information on applicants who completed the above criteria. Applicants will be chosen based on the following criteria.

Criteria	Percentage	Description
GPAx5	20%	2.5=12.5 4.0=20
TEAS (R&L)	5%	
Clinical Observation	3%	Must submit a completed observation form to Admissions.
Academic History	20%	Percentages awarded for courses taken toward the curriculum.
Health Related Certificates	1%	Must be from an accredited program. Examples: CNA, EMS, Massage Therapy. Credentials must be presented to obtain the point. Documentation must be presented.
Previous Degree	1%	Verified through transcript.
Phase 1	/50%	
Communication Skills Written	/10%	All candidates will be given a written assignment during interview process.
Interview	/40%	The top 50 applicants who have met criteria in Phase 1 will be scheduled for an interview.
Phase 2	/50%	
Phase 1&2	/100%	

PHASE III

Selected applicants will be notified by the admissions office of provisional acceptance into the program. The applicants must sign and return the Acknowledgment of Acceptance form to the admissions office as soon as possible within the identified timeline. Any student whose acknowledgment is not returned in a timely manner may forfeit the seat in the program.

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 the candidate is capable of meeting the essential functions for the program. All conditionally accepted candidates must return the health forms at a scheduled orientation session during the summer. As part of this session, candidates must successfully complete an essential functions activity which includes essential functions for the field of occupational therapy. Students will also be provided with information on the following at orientation: Registering with Castlebranch and submitting required personal information, immunization records, drug test to be accessed by clinical fieldwork sites. Students will be provided with information on CPR certification and professional liability insurance.

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-occupational therapy assistant, general education and related coursework prior to being accepted into the program.
4. All students admitted into the OTA program will be required to submit to a criminal background check and drug testing each academic year. The results of these tests could affect the student's ability to progress in the program. Additional testing may be required by facilities in which the students are completing fieldwork education.
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 graduation to sit for the licensure /certification exams.
6. All Students are required to complete clinical fieldwork education. 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

Anna Maria Holder Walls, Program Coordinator

a_walls@southwesterncc.edu

828.339.4334 or 800.447.4091, ext. 4334

Clinical Coordinator

828.339.4254 or 800.447.4091, ext. 4254

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.

The Outdoor Leadership program prepares individuals to work as educators, instructors or facilitators in parks, recreational facilities, camps and other outdoor settings. Potential course work includes instruction in leadership skills, wilderness survival skills, first aid, group processes, counseling techniques, environmental studies and instruction in recreational activities such as rock climbing, ropes courses, backpacking, kayaking and canoeing.

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	Writing & Inquiry	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	1	6	0	3
		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
PSY	150	General Psychology	3	0	0	3
		Totals	12	11	0	16

SUMMER SEMESTER

WBL	111	Work-Based Learning I	0	0	10	1
		Totals	0	0	10	1

FALL SEMESTER 2

BUS	139	Entrepreneurship I	3	0	0	3
HUM	115	Critical Thinking	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
ODL	220	Climbing	1	4	0	3
***	***	Technical Elective	0-6	2-6	0	1-8
		Totals	11-17	12-16	0	16-23

SPRING SEMESTER 2

MAT	143	Quantitative Literacy	2	2	0	3
ODL	212	Land-Based Activities II	1	6	0	3
ODL	228	ODL for Special Populations	2	2	0	3
ODL	286	Issues in Outdoor Leadership	2	2	0	3
***	***	Technical Elective	0-6	2-6	0	1-8
		Totals	7-13	14-18	0	13-20

Total Semester Hour Credits: 65-72

TECHNICAL ELECTIVES

EMS	110	EMT	6	6	0	8
EMS	243	Wilderness EMT	1	2	0	2
ODL	140	Intro to Wilderness Therapy	2	2	0	3
ODL	222	Minimum Impact Outdoor Skills	0	2	0	1
ODL	245	Wilderness Therapeutic Models	2	2	0	3
ODL	248	Field Techniques in WT	1	6	0	3
ODL	250	Biking	0	2	0	1
ODL	260	Challenge Course Management	1	4	0	3
ODL	267	Primitive Living Skills	1	4	0	3
ODL	270	Swift Water Rescue	0	2	0	1
ODL	275	Advanced Swiftwater Rescue	0	2	0	1
ODL	277	Technical Rope Rescue	1	2	0	2

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
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	1	4	0	3
		Totals	9	15-19	0	16

Total Semester Hour Credits: 16

FACULTY

Paul Wolf, Program Coordinator

pjwolf@southwesterncc.edu

SCC Swain Center • 828.366.2003

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.

<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	2	2	0	3
ODL	248	Field Techniques in WT	1	6	0	3
<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	1	4	0	3
		Totals	9-10	15-19	0	16

Total Semester Hour Credits: 16

FACULTY

Paul Wolf, Program Coordinator

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SCC Swain Center • 828.366.2003

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	6	6	0	8
<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 4 credits from 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	1	4	0	3
ODL	270	Swift Water Rescue	0	2	0	1
ODL	275	Advanced Swiftwater Rescue	0	2	0	1
ODL	277	Technical Rope Rescue	1	2	0	2
Totals			8-10	12-15	0	14-16

Total Semester Hour Credits: 14-16

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	Writing & Inquiry	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	143	Quantitative Literacy	2	2	0	3
<u>Choose one of the following:</u>						
POL	120	American Government	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		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	2	2	0	3
		Totals	15	6	0	18

SUMMER SEMESTER

LEX	141	Civil Litigation II	2	2	0	3
LEX	160	Criminal Law & Procedure	2	2	0	3
		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	2	0	0	2
		Totals	15	4	0	17

SPRING SEMESTER 2

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
WBL	111	Work-Based Learning I	0	0	10	1
<u>Choose one of the following:</u>						
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
		Totals	9	6	10	13

Total Semester Hour Credits: 71

FACULTY

Pamela Wilcox Smith, Program Coordinator

p_smith@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
PSY	150	General 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. PBT 101 runs the latter 8 weeks. This will increase the weekly hour requirements for PBT 100 lab and PBT 101 clinical.

Note: Students who successfully complete the Phlebotomy program may want to consider furthering their education with completion of a Medical Laboratory Technology degree. See MLT program coordinator for more information.

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 March 15. 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 March 15

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Applications must be updated annually by applicants who were not accepted the previous year. Designate Phlebotomy Certificate (C45600) and Therapeutic & Diagnostics Phlebotomy (D45950) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
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 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 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a “fourth math” beyond Algebra II.
 - d. Successful completion of a college-level math, English and computer literacy course.
6. Have a computer or access to a computer that is up to date (it does not have to be new, but it needs to be updated) with a web browser. Compatible web browsers are (Internet Explorer and Mozilla Firefox) Google Chrome is functional, however, not fully compatible yet.
 7. Have access to a word processing application like Microsoft Office 2010, Open Office (freeware) or use Google Docs, included within the “Quick Launch Pad” in your “myscc” page. If you have any questions regarding your online access to our college services, please review the online learning technical requirements here, or contact our IT Help Desk at 828.339.4409.
 8. Have access to a scanner to upload assignments to Blackboard.

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. The identified individuals will receive provisional acceptance and move to Phase III of the admissions requirements.

PHASE III

An Acceptance Packet from Admissions is sent (by mail) to those individuals who successfully complete Phase II requirements. The acceptance packet will include the following items with due dates for completion:

- Provisional Acceptance Letter
- Acknowledgement of Acceptance form – note due date on form
- *SCC Medical/Health Forms – **Due August 1**
- Essential Functions (self-appraisal) form to be completed by the student – **Due August 1**

*The medical/health forms must be completed by appropriate medical personnel and must indicate that you are capable of meeting the physical requirements of the program.

The items on the following check-off list must be **submitted to the Program Coordinator by August 1**.

- Medical/Health Forms including documentation of a physical, health history, immunizations to include the first Hepatitis B vaccine in the series. Note: if you have had Chicken Pox (and not the vaccine) then you will need to provide an Varicella-Zoster antibody titer to proof immunity.
- Receipt/proof of purchase for accident and malpractice insurance. This insurance can be purchased in the College Business office.
- Essential Functions (self-appraisal) form
- Signed signature sheet at the end of the Program Student Policy Manual. See Student Policy Manual section following below.

Students that fail to submit the completed forms above will not be able to register for program courses.

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 2 days/week during the first 8 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 maybe 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 at the end of first session fall semester. 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 link may be found at www.southwesterncc.edu/program/phlebotomy-certificate. 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 prior to entering the Phlebotomy program. The insurance can be purchased in the College Business Office.

NOTES

1. All students admitted into a health science program will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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

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828.339.4312 or 800.447.4091, ext. 4312

Dale Hall, Clinical Coordinator

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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.

The PTA program at Southwestern Community College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314. Phone: 703.706.3245 Email: accreditation@apta.org Website: www.capteonline.org

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A45620

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	Writing & Inquiry	3	0	0	3
PHY	125	Health Sciences Physics	3	2	0	4
PTA	110	Introduction to Physical Therapy	2	3	0	3
PTA	130	Physical Therapy Procedure I	1	6	0	3
		Totals	12	14	0	17

SPRING SEMESTER 1

PTA	140	Therapeutic Exercise	2	6	0	4
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
		Totals	10	21	0	17

SUMMER SEMESTER

PTA	160	Physical Therapy Procedure III	2	3	0	3
PTA	170	Pathophysiology	3	0	0	3
PTA	180	PTA Clinical Education Introduction	0	0	9	3
PTA	212	Health Care/Resources	2	0	0	2
		Totals	7	3	9	11

FALL SEMESTER 2

HUM	115	Critical Thinking	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PTA	222	Professional Interactions	2	0	0	2
PTA	182	PTA Clinical Ed I	0	0	6	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
		Totals	12	12	6	18

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	2	0	0	2
		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, introduction to computers, medical terminology, or other courses recommended by the program advisor. Other specific recommendations may be made through individual advising with a 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 Feb. 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 Feb. 15

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Physical Therapist Assistant AAS Degree (A45620) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply 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 Admissions Office.
4. Have a cumulative grade point average of 2.75 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, English and computer literacy course.

6. Complete a process of professional investigation in physical therapy. The investigation process includes both direct clinical observation and internet based research. The process should help the candidate be better prepared and gain an improved understanding of the profession to include: the rigor and cost of the professional education process, the roles of the different physical therapy professionals, the concept of the health care team, and the rehabilitation process. Each applicant should contact the PTA program coordinator for details and necessary documents to complete the investigative process.
7. Must take ATI TEAS - Allied Health Exam. 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. 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 (CIS 110 is recommended for students who have not had experience with a word processing application [e.g., Microsoft Office]).
9. Contact the program coordinator for information about the selective admissions process.

PHASE II

The top 40 candidates, based on a point scale which is available by request to the program faculty, who have completed all parts of Phase I by the appropriate deadlines will be scheduled for a personal interview. All interview candidates must review and sign the program standards form concerning essential functions.

PHASE III

Selected applicants will be notified by the Admissions Office of provisional acceptance to the program. The applicants must sign and return the Acknowledgement of Acceptance form to the Admissions office.

Those individuals, who are notified of acceptance status, will also be provided with SCC health forms to be completed by the appropriate medical personnel. The completed medical forms must indicate that the candidate is capable of meeting the physical requirements for the program. All conditionally accepted candidates must return the health forms at a scheduled required informational session prior to the beginning of the fall semester I. As part of this session, candidates must successfully complete a physical demands activity which includes essential abilities for the field of physical therapy.

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 will be required to submit to a criminal background check and drug testing a minimum of once each academic year. Additional testing may be required by facilities in which the students are completing clinical 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.

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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828.339.4306 or 800.447.4091, ext. 4306

Susan Kimel, Clinical Coordinator

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828.339.4615 or 800.447.4091, ext. 4615

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.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A45700

FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
BIO	163	Basic Anatomy & Physiology	4	2	0	5
ENG	111	Writing & Inquiry	3	0	0	3
HRD	3003	Career & 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	0	0	3	1
		Totals	12	8	9	18

SPRING SEMESTER 1

ENG	114	Professional Research and Reporting	3	0	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	0	0	15	5

Choose one of the following:

MAT	110	Mathematical Measurement & Literacy2		2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		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	0	0	12	4
		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	0	0	21	7
		Totals	8	6	21	17

SPRING SEMESTER 2

HUM	110	Technology and Society	3	0	0	3
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
		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

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. If you are not currently enrolled at SCC complete an application to the college. Designate Radiography AAS Degree (A45700) as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to this 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 2.8 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, 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. Must take the TEAS - Allied Health Exam. The TEAS - Allied Health Exam must have been taken within the past three years and may only be taken once per academic year. Details for testing dates and times plus costs 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 TEAS - Allied Health Exam 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).
- TEAS - Allied Health Exam – 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
 - Clinical Observation 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. 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 by spring, before the start of the program in fall.

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.

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 will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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
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828.339.4320 or 800.447.4091, ext. 4320

Kim Argo, Clinical Coordinator
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828.339.4359 or 800.447.4091, ext. 4359

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
RCP	110	Intro to Respiratory Care	3	3	0	4
RCP	113	C-P Pharmacology	2	0	0	2
RCP	114	C-P Anatomy & Physiology	3	0	0	3
RCP	122	Special Practice Lab	0	2	0	1
RCP	132	Clinical Practice I	0	0	6	2
		Total	12	8	6	17

SPRING SEMESTER 1

BIO	169	Anatomy & Physiology II	3	3	0	4
ENG	111	Writing & Inquiry	3	0	0	3
RCP	111	Therapeutics/Diagnostics	4	3	0	5
RCP	115	C-P Pathophysiology	2	0	0	2
RCP	123	Special Practice Lab	0	3	0	1
RCP	143	Clinical Practice II	0	0	9	3
		Total	12	9	9	18

SUMMER SEMESTER

PSY	150	General Psychology	3	0	0	3
RCP	112	Patient Management	3	3	0	4
RCP	154	Clinical Practice III	0	0	12	4
		Total	6	3	12	11

FALL SEMESTER 2

ENG	114	Professional Research & Reporting	3	0	0	3
RCP	210	Critical Care Concepts	3	3	0	4
RCP	213	Neonatal/Pediatric Concepts	2	0	0	2
RCP	222	Special Practice Lab	0	2	0	1
RCP	234	Clinical Practice IV	0	0	12	4

Choose on of the following:

MAT	110	Math Measurement & Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Total	10	7	12	17

SPRING SEMESTER 2

COM	140	Intro to Intercultural Communication	3	0	0	3
RCP	245	Clinical Practice V	0	0	15	5
RCP	211	Advanced Monitoring/Procedures	3	3	0	4
RCP	215	Career Prep-Advanced Level	0	3	0	1
		Totals	6	6	15	13

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 April 1

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Respiratory Therapy, AAS A45720 as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level math, English and computer literacy course.

6. Complete a minimum of 6 hours of observation time in Respiratory Therapy at a health care facility. A form for documenting is available from the program advisor. It is the prospective students responsibility to obtain necessary documentation of attendance and return to the admissions office. It is the student's responsibility to schedule your observation visits, if you have questions about possible site, please get approved list from program advisor.
7. Must take the TEAS-Allied Health Exam. The TEAS-Allied Health Exam must have been taken within the past three years and may only be taken once per academic year. Details for cost, 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 will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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.

ADVISOR

Mitch Fischer, Dean of Health Sciences

mfischer@southwesterncc.edu

828.339.4331 or 800.447.4091, ext. 4331

A course of study that prepares the students to apply basic engineering principles and technical skills for positions in the telecommunication networking industry. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, microprocessors, telecommunications and network systems with an emphasis on analyzing and troubleshooting telecommunications and network systems. Graduates should qualify for employment as electronic engineering technicians, field service technicians, maintenance technicians, network system technicians, network specialists, network systems integrators, and network administrators.

***Pending NCCCS Approval

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A40400

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
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	4
MAT	121	Algebra/Trigonometry I	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
		Totals	11	10	0	14

SPRING SEMESTER 1

CET	130	Operating Systems	2	0	0	3
ELN	131	Semiconductor Applications	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MAT	122	Algebra/Trigonometry II	2	2	0	3
		Totals	10	5	0	13

SUMMER SEMESTER

COM	231	Public Speaking	3	0	0	3
CSC	134	C++ Programming	2	3	0	3
ELN	133	Digital Electronics	3	3	0	4
		Totals	8	6	0	10

FALL SEMESTER 2

CET	111	Computer Upgrade/Repair I	2	3	0	3
ELN	232	Introduction to Microprocessors	3	3	0	4
TNE	111	Campus Networks I	2	3	0	3
TNE	121	Campus Networks II	2	3	0	3
		Totals	9	12	0	13

SPRING SEMESTER 2

CET	211	Computer Upgrade/Repair II	2	3	0	3
CET	245	Internet Servers	2	3	0	3
ELN	237	LANs	2	3	0	3
ELN	238	Advanced LANs	2	3	0	3
<u>Choose one of the following:</u>						
HUM	110	Technology and Society	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
<u>Choose one of the following:</u>						
EGR	285	Design Project	0	4	0	2
WBL	112	Work-Based Learning I	0	0	20	2
		Totals	11	12-16	0-20	17

Total Semester Hour Credits: 67

FACULTY

Michael Deaver, Program Coordinator

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828.339.4337 or 800.447.4091, ext. 4337

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.

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) - A45750

*** Pending NCCCS Approval

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	163	Basic Anatomy & Physiology I	4	2	0	5
ENG	111	Writing & Inquiry	3	0	0	3
MTH	110	Fundamentals of Massage	6	9	3	10
		Totals	14	11	3	19

SPRING SEMESTER 1

MTH	120	Therapeutic Massage Applications	6	9	3	10
MTH	121	Clinical Supplement I	0	0	3	1
MTH	125	Ethics of Massage	2	0	0	2
MTH	130	Therapeutic Massage Management	2	0	0	2
		Totals	10	9	6	15

Summer Semester 1

CIS	111	Basic PC Literacy	1	2	0	2
PSY	150	General Psychology	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
		Totals	7	2	0	8

Fall Semester 2

MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
MTH	210	Advanced Skills of Massage	4	9	3	8
		Totals	10	9	3	14

Spring Semester 2

HUM	115	Critical Thinking	3	0	0	3
MTH	220	Outcome Based Massage	4	6	3	7
NUT	110	Nutrition	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
		Totals	13	6	3	16

Total Program Hours: 72

DIPLOMA - D45750

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: 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	Writing & Inquiry	3	0	0	3
MTH	110	Fundamentals of Massage	6	9	3	10

Choose one of the following:

ACA	111	College Student Success	1	0	0	1
ACA	122	College Transfer Success	0	2	0	1
Totals			13-14	11-13	3	19

SPRING SEMESTER 1

CIS	111	Basic PC Literacy	1	2	0	2
MTH	120	Therapeutic Massage Applications	6	9	3	10
MTH	121	Clinical Supplement I	0	0	3	1
MTH	125	Ethics of Massage	2	0	0	2
MTH	130	Therapeutic Massage Management	2	0	0	2
PSY	150	General Psychology	3	0	0	3
Totals			15	11	3	20

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 April 25 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 25

The applicant must:

1. If you are not currently enrolled at SCC complete an application to the college. Designate Therapeutic Massage D45750 as the program of interest. If you are a current student, see Admissions to complete a change of major form if you wish to apply to the program.
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 ensure 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. Provide an official high school transcript indicating graduation within the last five years with a minimum unweighted GPA of 2.6 and completion of a "fourth math" beyond Algebra II.
 - d. Successful completion of a college-level English course.
6. Have all developmental coursework completed.
 7. All students admitted into a health science program may be required to submit to a criminal background check and drug testing prior to enrollment each academic year. The results of these tests could affect the student's ability to progress in the program.

PHASE II

Applicants who have successfully completed Phase 1 by the appropriate deadlines will be notified by email to attend a mandatory information session.

Please ensure that the college has your current address on file.

FACULTY

Mitch Fischer, Program Advisor

mfischer@southwesterncc.edu

828.339.4331 or 800.447.4091, ext. 4331

This curriculum is designed to prepare students for careers in the Health Sciences.

Students will complete general education courses that provide a foundation for success in nursing and allied health curricula. Students may select a career pathway that will prepare them for an entry level position in health care. Courses may also provide foundational knowledge needed in the pursuit of advanced health science degrees or programs.

Graduates should qualify for an entry-level job associated with the program major such as Emergency Medical Technician (EMT) or Advanced Emergency Medical Technician (AEMT), Medical Assistant, Nurse Aide, Pharmacy Technician, Phlebotomist, or Massage Therapist dependent upon the selected program major.

EMERGENCY MEDICAL SCIENCE

EMERGENCY MEDICAL SCIENCE - D45910, D45910CP**

(For Emergency Medical Science, Outdoor Leadership & Respiratory Therapy candidates)

A program that prepares graduates to enter the workforce as Emergency Medical Technicians or Advanced Emergency Medical Technicians. The course of study provides the student an opportunity to acquire basic life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, and hospital/field internships. 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, industry, educational institutions, and government agencies.

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:

www.southwesterncc.edu/program/therapeutic-diagnostic-services-emergency-medical-science

FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy & Physiology I	3	3	0	4
EMS	110	EMT	6	6	0	8
ENG	111	Writing & Inquiry	3	0	0	3
HSC	110	Orientation to Health Careers	1	0	0	1
MED	121	Medical Terminology I	3	0	0	3
		Totals	17	9	0	20

SPRING SEMESTER 1

BIO	169	Anatomy & Physiology II	3	3	0	4
EMS	120	Advanced EMT	4	6	0	6
EMS	121	Advanced EMT Clinical Practicum	0	0	2	2
MED	122	Medical Terminology II	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	13	9	2	18

SUMMER SEMESTER

ENG	114	Professional Research & Reporting	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	8	2	0	9

Total Semester Hour Credits: 47

**CCP Students must choose ACA 111.

FACULTY

Eric Hester, Program Advisor

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Mitch Fischer, Program Advisor

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MEDICAL ASSISTING

MEDICAL ASSISTING - D45920, D45920CP**

(For Medical Assisting, Health Information Technology, Human Services Technology, Medical Sonography, Physical Therapist Assistant, Occupational Therapy Assistant & Radiography candidates)

A program that prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures. Course work includes instruction in scheduling appointments, medical records, introductory insurance procedures, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, and supervised medication administration. 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.

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: www.southwesterncc.edu/program/therapeutic-diagnostic-services-medical-assisting

FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success**	1	0	0	1
ENG	111	Writing & Inquiry	3	0	0	3
HSC	110	Orientation to Health Careers	1	0	0	1
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	130	Administrative Office Procedures I	1	2	0	2
MED	131	Administrative Office Procedures II	1	2	0	2
		Totals	13	4	0	15

SPRING SEMESTER 1

MED	122	Medical Terminology II	3	0	0	3
MED	140	Exam Room Procedures I	3	4	0	5
MED	150	Laboratory Procedures I	3	4	0	5
MED	276	Patient Education	1	2	0	2
Choose one of the following:						
BIO	163	Basic Anatomy & Physiology OR	4	2	0	5
BIO	168	Anatomy & Physiology I AND	3	3	0	4
BIO	169	Anatomy & Physiology II	3	3	0	4
		Totals	13-14	12-13	0	19-20

SUMMER SEMESTER

BIO	169	Anatomy & Physiology II	3	3	0	4
MED	260	MED Clinical Practicum	0	0	15	5
MED	262	Clinical Perspectives	1	0	0	1
PSY	150	General Psychology	3	0	0	3
		Totals	7	3	15	9-13

Total Semester Hour Credits: 44-47

**CCP Students must choose ACA 111 and BIO 163.

FACULTY

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Mitch Fischer, Program Advisor
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 828.339.4331 or 800.447.4091, ext. 4331

NURSE AIDE

NURSE AIDE - D45970

(For Certified Nurse Aide & Nursing candidates)

The Nurse Aide curriculum prepares individuals to work under the supervision of licensed nursing professionals in performing nursing care and services for persons of all ages. Topics include growth and development, 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. Upon completion, the student may be eligible for listing as a Nurse Aide I and other selected Nurse Aide registries as determined by the local program of study.

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: www.southwesterncc.edu/program/therapeutic-diagnostic-services-nurse-aide

FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
BIO	168	Anatomy & Physiology I	3	3	0	4
ENG	111	Writing & Inquiry	3	0	0	3
HSC	110	Orientation to Health Careers	1	0	0	1
NAS	101	Nurse Aide I	3	4	3	6
MED	121	Medical Terminology I (1st 8 weeks)	3	0	0	3
MED	122	Medical Terminology II (2nd 8 weeks)	3	0	0	3
		Totals	17	7	3	21

SPRING SEMESTER 1

BIO	169	Anatomy & Physiology II	3	3	0	4
HUM	115	Critical Thinking	3	0	0	3
NAS	102	Nurse Aide II	3	2	6	6
MAT	143	Quantitative Literacy	2	2	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	14	7	6	19

SUMMER SEMESTER

ENG	114	Professional Research & Reporting	3	0	0	3
<u>Choose one of the following:</u>						
BIO	175	General Microbiology OR	2	2	0	3
CHM	131	Introduction to Chemistry AND	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
		Totals	5-6	2-3	0	6-7

Total Semester Hour Credits: 46-47

NURSE AIDE

PROGRESSION CRITERIA

In order to progress to the Spring Semester, all students must:

- Be currently licensed as a Certified Nurse Aide I with the North Carolina Division of Health Service Regulation with no substantiated findings of abuse, neglect or misappropriation of resident property.
- Must have current CPR certification for Healthcare Providers that must remain current through clinical rotation.

CLINICAL EDUCATION

Clinical education will be provided at cooperating hospitals or health care facilities within the area served by the College. Transportation and associated expenses are the sole responsibility of the student.

NOTES

1. All students admitted into a health science program will be required to submit to a criminal background check and drug testing prior to enrollment each academic year. 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

Donna Pruitt Conner, Program Advisor

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828.339.4459 or 800.447.4091, ext. 4459

Mitch Fischer, Program Advisor

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828.339.4331 or 800.447.4091, ext. 4331

PHLEBOTOMY

PHLEBOTOMY - D45950

(For Medical Laboratory Technology candidates)

A program that 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.

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: www.southwesterncc.edu/program/therapeutic-diagnostic-services-phlebotomy

FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
CHM	130	General, Organic, and Biochemistry	3	0	0	3
CHM	130A	General, Organic, and Biochem Lab	0	2	0	1
MED	121	Medical Terminology I (1st 8 weeks)	3	0	0	3
MED	122	Medical Terminology II (2nd 8 weeks)	3	0	0	3
PBT	100	Phlebotomy Technology	5	2	0	6
PBT	101	Phlebotomy Practicum	0	0	9	3
Totals			15	4	9	20

SPRING SEMESTER 1

BIO	163	Basic Anatomy & Physiology	4	2	0	5
ENG	111	Writing & Inquiry	3	0	0	3
HSC	120	CPR	0	2	0	1
MAT	143	Quantitative Literacy	2	2	0	3
PSY	150	General Psychology	3	0	0	3
Totals			12	6	0	15

SUMMER SEMESTER

Choose one of the following:

ENG	112	Writing & Research in the Disciplines	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3

Choose one of the following:

HUM	110	Technology & Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
Totals			6	0	0	6

Total Semester Hour Credits: 41

FACULTY**Andrea Kennedy, Program Advisor**andrea@southwesterncc.edu
828.339.4312 or 800.447.4091, ext. 4312**Mitch Fischer, Program Advisor**mfischer@southwesterncc.edu
828.339.4331 or 800.447.4091, ext. 4331

THERAPEUTIC MASSAGE

THERAPEUTIC MASSAGE - D45960

(For Massage Therapy candidates)

A program that 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 work includes content in normal human anatomy and physiology, therapeutic massage, and ethical/legal issues. 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.

Gainful Employment Disclosure Information - For more information about SCC's graduation rates, program costs, the median debt of students who completed this program, and other important information, please visit the program's webpage for the latest information at: <https://www.southwesterncc.edu/gainful-employment-disclosure/gainful-employment-disclosure-therapeutic-diagnostic-services-therapeutic-massage>

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	Writing & Inquiry	3	0	0	3
HSC	110	Orientation to Health Careers	1	0	0	1
MTH	110	Fundamentals of Massage	6	9	3	10
		Totals	14	12	3	19

SPRING SEMESTER 1

BIO	169	Anatomy & Physiology II	3	3	0	4
MTH	120	Therapeutic Massage Applications	6	9	3	10
MTH	125	Ethics of Massage	2	0	0	2
		Totals	11	12	3	16

SUMMER SEMESTER

HSC	120	CPR	0	2	0	1
MED	120	Survey of Medical Terminology	2	0	0	2
		Totals	2	2	0	3

Total Semester Hour Credits: 38

FACULTY**Mitch Fischer, Program Advisor**

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	3	0	0	3
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
CST	244	Sustainable Building Design	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	110	Mathematical Measurement & Literacy	2	2	0	3
WBL	112	Work-Based Learning I	0	0	20	2
		Totals	26	37	29	43

Total Semester Hour Credits: 43

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	3	15	0	8
		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 18 for additional information.

Available at these High Schools
 Jackson County School of Alternatives - Matthew Shirey
 Swain County High School - Derek Oetting

CONTACT

College Access Coordinator

ccp@southwesterncc.edu

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	2	6	0	4
		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 18 for additional information.

This is a part-time program that will take 5 semesters (excluding summer term) to complete.

ADVISOR

Dean of Career Technologies

828.339.4204 or 800.447.4091, ext. 4204

Prefix	Field of Study	
ACA	Academic Related	HRM
ACC	Accounting	HSC
AHR	A/C, Heating & Refrigeration	HSE
ANT	Anthropology	HUM
ART	Art	LEX
AUT	Automotive	MAT
BIO	Biology	MED
BPR	Blueprint Reading	MKT
BUS	Business	MLT
CAR	Carpentry	MTH
CCT	Cyber Crime	MUS
CEG	Civil Engineering & Geomatics	NAS
CET	Computer Engineering Technology	NET
CHM	Chemistry	NOS
CIS	Computer Information Technology	NUR
CIV	Civil Engineering	NUT
CJC	Criminal Justice	ODL
COM	Communications	OST
COS	Cosmetology	PBT
CSC	Computer Science	PED
CST	Construction	PHI
CUL	Culinary	PHY
DBA	Database	POL
DFT	Drafting	PSY
DMA	Developmental Math	PTA
ECM	Electronic Commerce	RAD
ECO	Economics	RCP
EDU	Education/Early Childhood	REL
EGR	Engineering	SAB
ELC	Electrical	SEC
ELN	Electronics Engineering Technology	SOC
EMS	Emergency Medical Science	SON
ENG	English	SPA
ENV	Environmental Science	SRV
ETR	Entrepreneurship	SWK
GER	German	TRN
GRA	Graphics	WBL
GRD	Graphic Design	WEB
HEA	Health	WLD
HIS	History	
HIT	Health Information Technology	

Performance Measure	Excellence Level	System Mean	Results for SCC	SCC Performance
Basic Skills Progress	68.3%	56.1%	63.6%	Above college average, Below excellence level
Credit English Success	55.9%	46.9%	44.1%	Above baseline level, Below college average
Credit Math Success	32.5%	26.9%	27.5%	Above college average, Below excellence level
First Year Progression	75.%	68.4%	72.5%	Above college average, Below excellence level
Curriculum Completion Rate	51.9%	44.1%	44.3%	Above college average, Below excellence level
Licensure Passing Rate	90.9%	82.3%	89.4%	Above college average, Below excellence level
Transfer Performance	87.6%	82.7%	88.6%	Met or exceeded excellence level

Source 1: 2016 Performance Measures for Student Success

COURSE DESCRIPTIONS

- Course Descriptions

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 Curriculum and Instruction Committee at SCC.

Corequisite: A course taken at the same time as another course or prior to the course to be taken.

CAA: Comprehensive Articulation Agreement

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 122 College Transfer Success (0-2-1)

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and 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 for transfer under the CAA as a premajor and/or elective course requirement.

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 for transfer under the CAA as a premajor 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 for transfer under the CAA as a premajor 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 130 Business Income Taxes (2-2-3)

This course introduces the relevant laws governing business and fiduciary income taxes. Topics include tax law relating to business organizations, electronic research and methodologies, and the use of technology for the preparation of business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various business tax forms.

ACC 140 Payroll Accounting (1-2-2)

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology.

ACC 150 Accounting Software Applications (1-2-2)

Prerequisite: 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 180 Practices in Bookkeeping 3-0-3

Prerequisite: ACC 120

This course provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small businesses.

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 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)

Prerequisite: 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)

Prerequisite: AHR 110

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)

Prerequisite: AHR 110

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)

Prerequisite: 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)

Prerequisites: 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)

Prerequisites: 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 psychometrics, 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)

Prerequisites: 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: DRE 098 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

ANT 220 Cultural Anthropology (3-0-3)

Prerequisite: [DRE 098](#) 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

ART**ART 111 Art Appreciation (3-0-3)**

Prerequisite: [DRE 098](#) 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

ART 114 Art History Survey I (3-0-3)

Prerequisite: [DRE 098](#) 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

ART 115 Art History Survey II (3-0-3)

Prerequisite: [DRE 098](#) 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 for transfer under the CAA as a general education course 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA as a premajor and/or elective course requirement.

ART 132 Drawing II (0-6-3)

Prerequisite: 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. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

ART 214 Portfolio and Resume (0-2-1)

This course covers resume writing, interview skills, and the preparation and presentation of an art portfolio. Emphasis is placed on the preparation of a portfolio of original artwork, the preparation of a photographic portfolio, approaches to resume writing, and interview techniques. Upon completion, students should be able to mount original art for portfolio presentation, photograph and display a professional slide portfolio, and write an effective resume. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

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 for transfer under the CAA as a premajor and/or elective course requirement.

ART 232 Printmaking II (0-6-3)

Prerequisite: 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA as a premajor and/or elective course requirement.

ART 264 Digital Photography I (0-6-3)

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 for transfer under the CAA 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 for transfer under the CAA as a premajor and/or elective course requirement.

ART 282 Sculpture II (0-6-3)

Prerequisite: 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA as a premajor and/or elective course requirement.

ART 288 Studio (0-6-3)

Prerequisites: [ART 232](#), [ART 241](#), [ART 252](#), [ART 282](#), or [ART 284](#)

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 for transfer under the CAA as a premajor and/or elective course requirement.

ASTRONOMY**AST 111 Descriptive Astronomy (3-0-3)**

Prerequisite: [DRE 098](#)

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them.

This course has been approved for transfer under the CAA as a general education course in Natural Science.

AST 111A Descriptive Astronomy Lab (0-2-1)

Prerequisite: [DRE 098](#)

Corequisite: [AST 111](#)

The course is a laboratory to accompany [AST 111](#). Emphasis is placed on laboratory experiences which enhance the materials presented in [AST 111](#) and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. This course has been approved for transfer under the CAA as a general education course in Natural Science.

AUTOMATION AND ROBOTICS**ATR 112 Intro to Automation (2-3-3)**

This course introduces the basic principles of automated systems and describes the tasks that technicians perform on the job. Topics include the history, development, and current applications of robots and automated systems including their configuration, operation, components, and controls. Upon completion, students should be able to understand the basic concepts of automation and robotic systems.

ATR 211 Robot Programming (2-3-3)

Prerequisite: [ELC 131](#)

This course provides the operational characteristics of robots and programming in their respective languages. Topics include robot programming, teach pendants, PLC integration, operator interfaces, the interaction of external sensors, machine vision, network systems, and other related devices. Upon completion, students should be able to program and demonstrate the operation of various robots.

ATR 219 Automation Troubleshooting (1-3-2)

Prerequisite: [ELC 131](#)

This course introduces troubleshooting procedures used in automated systems. Topics include logical fault isolation, diagnostic software usage, component replacement techniques, and calibration; safety of equipment; and protection of equipment while troubleshooting. Upon completion, students should be able to analyze and troubleshoot an automated system.

AUTOMOTIVE**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 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 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.

BIOLOGY**BIO 110 Principles of Biology (3-3-4)**

Prerequisite: DRE 098 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, 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 for transfer under the CAA as a general education course in Natural Science. Students may not apply both BIO 110 and BIO 111 toward completion of AA or AS degree requirements.

BIO 111 General Biology I (3-3-4)

Prerequisite: DRE 098 or satisfactory test scores

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, 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 for transfer under the CAA as a general education course in Natural Science. Students may not apply both BIO 110 and BIO 111 toward completion of AA or AS degree requirements.

BIO 112 General Biology II (3-3-4)

Prerequisite: BIO 111

This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, 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 for transfer under the CAA as a general education course in Natural Science.

BIO 120 Introductory Botany (3-3-4)

Prerequisite: 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 for transfer under the CAA as a general education course in Natural Science.

BIO 130 Introductory Zoology (3-3-4)

Prerequisite: 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 for transfer under the CAA as a general education course in Natural Science.

BIO 140 Environmental Biology (3-0-3)

Prerequisite: DRE 098 or satisfactory test scores

Corequisite: BIO 140A

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 for transfer under the CAA as a general education course in Natural Science.

BIO 140A Environmental Biology Lab (0-3-1)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Natural Science.

BIO 163 Basic Anatomy & Physiology (4-2-5)

Prerequisite: DRE 098 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 for transfer under the CAA as a premajor and/or elective requirement.

BIO 168 Anatomy and Physiology I (3-3-4)

Prerequisite: DRE 098 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 for transfer under the CAA as a premajor and/or elective 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 for transfer under the CAA as a premajor and/or elective requirement.

BIO 175 General Microbiology (2-2-3)

Prerequisites: BIO 110, BIO, 111, BIO 163, 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 for transfer under the CAA as a premajor and/or elective 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 for transfer under the CAA as a premajor and/or elective course requirement.

BUS 115 Business Law I (3-0-3)

This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them. This course has been approved for transfer under the CAA 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 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 e-commerce. Upon completion, students should be able to define electronic business and demonstrate an understanding of the benefits of e-commerce as a foundation for developing plans leading to electronic business implementation.

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 240 Business Ethics (3-0-3)

This course introduces contemporary and controversial ethical issues that face the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society.

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 270 Professional Development (3-0-3)

This course provides basic knowledge of self-improvement techniques as related to success in the professional world. Topics include positive human relations, job-seeking skills, and projecting positive self-image. Upon completion, students should be able to demonstrate competent personal and professional skills necessary to get and keep a job.

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 (Huskins 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.

COMPUTED TOMOGRAPHY IMAGING**CAT 210 CT Physics & Equipment (3-0-0-3)**

This course covers the system operations and components, image processing and display, image quality, and artifacts in computed tomography. Emphasis is placed on the data acquisition components, tissue attenuation conversions, image manipulation, and factors controlling image resolution. Upon completion, students should be able to understand the physics and instrumentation used in computed tomography.

CAT 211 CT Procedures (4-0-0-4)

This course is designed to cover specialized patient care, cross-sectional anatomy, contrast media, and scanning procedures in computed tomography. Emphasis is placed on patient assessment and monitoring, contrast agents' use, radiation safety, methods of data acquisition, and identification of cross-sectional anatomy. Upon completion, students should be able to integrate all facets of the imaging procedures in computed tomography.

CAT 231 CT Clinical Practicum (0-0-33-11)

This course provides the opportunity to apply knowledge gained from classroom instruction to the computed tomography clinical setting. Emphasis is placed on patient care and positioning, scanning procedures, and image production in computed tomography. Upon completion, students should be able to assume a variety of duties and responsibilities within the computed tomography clinical environment.

CIVIL ENGINEERING & GEOMATICS**CEG 111 Introduction to GIS and GNSS (2-4-4)**

Prerequisite: CIS 110 and DMA 010 - DMA 080

This course introduces the methods and techniques used in the Geographic Information Systems (GIS) and Global Navigation Satellite Systems (GNSS) professions. Emphasis is placed on data collection and mapping using GIS software. Upon completion, students should be able to use GNSS technologies to collect field data and create GIS maps.

CEG 115 Introduction to Tech & Sustainability (2-3-3)

Corequisites: CIS 110 and DMA 010 - DMA 080

This course introduces basic skills, sustainability concepts and career fields for technicians. Topics include career options, technical vocabulary, dimensional analysis, measurement systems, engineering graphics, professional ethics, and related topics. Upon completion, students should be able to identify drawing elements and create sketches, perform basic engineering computations and identify measures of sustainable development.

CEG 151 CAD for Engineering Technology (2-3-3)

Corequisites: CIS 110 and DMA 010 - DMA 080

This course introduces computer-aided drafting (CAD) software. Topics include file and data management, drawing, editing, dimensioning commands, plotting, and related topics. Upon completion, students should be able to create and plot basic drawings and maps using CAD software.

CEG 210 Construction Materials & Methods (2-3-3)

Prerequisite: CIS 110 and DMA 010 - DMA 080

This course covers the behavior and properties of Portland cement, asphaltic concretes, and other construction materials, including construction methods and equipment. Topics include cementing agents, aggregates, water and admixture materials with their proportions, production, placement, consolidation, curing; and their inspection. Upon completion, students should be able to proportion Portland concrete mixes to attain predetermined strengths, perform standard control tests on Portland cement concrete, identify inspection criteria for concretes, identify construction equipment and applications.

CEG 211 Hydrology & Erosion Control (2-3-3)

Prerequisites: MAT 171 and CEG 151

This course introduces basic engineering principles and characteristics of hydrology, erosion and sediment control. Topics include stormwater runoff, gravity pipe flow, open channel flow, low impact development (LID), erosion control devices and practices. Upon completion, students should be able to analyze and design gravitational drainage structures, identify LID and erosion control elements, and prepare a stormwater drainage plan.

CEG 212 Introduction to Environmental Technology (2-3-3)

Prerequisite: EGR 250

This course introduces basic engineering principles of hydraulics, and water and wastewater technologies. Topics include fluid statics, fluid dynamics, flow measurement, the collection, treatment, and distribution of water and wastewater. Upon completion, students should be able to identify water and wastewater system elements, describe water and wastewater system processes and perform basic hydraulics and treatment computations.

CEG 230 Subdivision Planning & Design (1-6-3)

Prerequisites: CEG 151 and CEG 211 and SRV 111

This course covers the planning and design concepts related to subdivisions including analysis of development standards, engineering, and the creation of CAD drawings. Topics include applicable codes, lot creation, roadway system layout, stormwater drainage, low impact development (LID) concepts, and related topics. Upon completion, students should be able to prepare a set of subdivision plans.

CEG 235 Project Management & Estimating (2-3-3)

Prerequisite: CEG 115

This course covers planning and estimating practices which are applicable to the civil engineering and related construction industries. Emphasis is placed on construction project planning and management, material take-offs labor and equipment requirements in accordance with industry formats, and other economic topics. Upon completion, students should be able to accurately complete material take-offs, prepare cost estimates, and prepare construction schedules.

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: CTI 120

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 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 130 Operating System Principles (2-3-3)

This course introduces the concepts, usage, internals and applications of operating systems used in engineering technology. Topics include resource management, shells, schedulers, file systems, networking, software considerations and other related topics. Upon completion, students should be able to choose and evaluate an operating system for engineering applications.

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 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.

CHEMISTRY**CHM 090 Chemistry Concepts (4-0-4)**

Prerequisites: DRE 098, DMA 010, DMA 020, DMA 030, DMA 040

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 130 General, Organic & Biochemistry (3-0-3)

This course provides a survey of basic facts and principles of general, organic, and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties, and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CHM 130A General, Organic, & Biochemistry Lab (0-2-1)

Corequisite: CHM 130

This course is a laboratory for CHM 130. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 130. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 130. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CHM 131 Introduction to Chemistry (3-0-3)

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DRE 098, or satisfactory test scores

Corequisite: CHM 131A

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 for transfer under the CAA as a general education course in Natural Science.

CHM 131A Introduction to Chemistry Lab (0-3-1)

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DRE 098, 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 for transfer under the CAA as a general education course in Natural Science.

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 for transfer under the CAA as a general education course in Natural Science.

CHM 151 General Chemistry I (3-3-4)

Prerequisites: DRE 098, MAT 171, high school chemistry or CHM 090, 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 for transfer under the CAA as a general education course in Natural Science.

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 for transfer under the CAA as a general education course in Natural Science.

COMPUTER INFORMATION SYSTEMS**CIS 070 Fundamentals of Computing (0-2-1)**

This course covers fundamental 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 for transfer under the CAA as a general education course in Mathematics (Quantitative).

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, and DMA 040; or MAT 121; or MAT 171

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 use top-down algorithm solutions in a programming language. This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

CIVIL ENGINEERING TECHNOLOGY**CIV 111 Soils and Foundations (2-4-4)**

Prerequisite: EGR 250

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)

Prerequisite: [CEG 151](#)

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 215 Highway Technology (2-3-3)

Prerequisite: CEG 115 and MAT 171

This course introduces the essential elements of roadway components and design. Topics include subgrade and pavement construction, roadway drawings and details, traffic analysis, geometric design and other related topics. Upon completion, students should be able to interpret roadway details and specifications, and produce street and highway construction drawings.

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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA as a premajor and/or elective course requirement.

CJC 151 Introduction to Loss Prevention (3-0-3)

This course introduces the concepts and methods related to commercial and private security systems. Topics include the historical, philosophical, and legal basis of security, with emphasis on security surveys, risk analysis, and associated functions. Upon completion, students should be able to demonstrate and understand security systems, risk management, and the laws relative to loss prevention.

CJC 160 Terrorism: Underlying Issues (3-0-3)

This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scene; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning considerations involving threat assessments. Upon completion, students should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.

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 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 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.

COMMUNICATION**COM 110 Introduction to Communication (3-0-3)**

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in English Composition. Students may not apply both COM 110 and COM 231 toward completion of AA degree.

COM 140 Introduction to Intercultural Communication (3-0-3)

Prerequisite: DRE 098 or satisfactory test scores

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 for transfer under the CAA as a general education course in English Composition.

COM 231 Public Speaking (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in English Composition. Students may not apply both COM 110 and COM 231 toward completion of AA or AS degree 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 and COS 112

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 111 and COS 112

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 and COS 112

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 111 and COS 112

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 and COS 112

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 111 and COS 112

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.

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 for transfer under the CAA as a premajor and/or elective course requirement.

CSC 139 Visual BASIC Programming (2-3-3)

Prerequisite: [CIS 115](#)

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 for transfer under the CAA as a premajor and/or elective course requirement.

CSC 151 JAVA Programming (2-3-3)

Prerequisite: [CIS 115](#)

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. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CSC 251 Advanced JAVA Programming (2-3-3)

Prerequisite: [CSC 151](#)

This course is a continuation of CSC 151 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, and implement objects using the appropriate environment.

COMPUTER INFORMATION TECHNOLOGY**CTS 115 Info Sys Business Concepts (3-0-3)**

The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CTS 120 Hardware/Software Support (2-3-3)

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)

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 155 Tech Support Functions (2-2-3)

This course introduces a variety of diagnostic and instructional tools that are used to evaluate the performance of technical support technologies. Emphasis is placed on technical support management techniques and support technologies. Upon completion, students should be able to determine the best technologies to support and solve actual technical support problems.

CTS 250 User Support & Software Evaluation (2-2-3)

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 289 System Support Project (1-4-3)

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.

COMPUTER TECHNOLOGY INTEGRATION**CTI 110 Web, Program, and Db Foundation (2-2-3)**

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a website with mark-up tools, and create a simple database table.

CTI 120 Network & Sec Foundation (2-2-3)

This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols.

CTI 140 Virtualization Concepts (1-4-0-3)

This course introduces operating system virtualization. Emphasis is placed on virtualization terminology, virtual machine storage, virtual networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of virtual machines.

CTI 141 Cloud & Storage Concepts (1-4-3)

This course introduces cloud computing and storage concepts. Emphasis is placed on cloud terminology, virtualization, storage networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of cloud storage systems.

CTI 150 Mobile Computing Devices (2-2-3)

This course introduces mobile computing devices, including topics related to their selection, usage, deployment, and support in enterprise environments. Emphasis is placed on the evaluation, usage, deployment, security, and support of mobile devices, applications (apps), and peripherals. Upon completion, students should be able to select, deploy, and support mobile devices in an enterprise environment.

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 and be able to successfully pass the Manage First competency exam from the NRA.

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 and be able to successfully pass the Manage First competency exam from the NRA.

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 and be able to successfully pass the Manage First competency exam from the NRA.

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 and be able to successfully pass the Manage First competency exam from the NRA.

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)

Corequisite: 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.

DBA 120 Database Programming I (2-2-3)

Prerequisite: [WEB 110](#)

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports.

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)

Prerequisite: 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: 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: 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: 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: DMA 010, DMA 020, DMA 030, DMA 040 and DMA 050, or satisfactory test scores

This course provides a study of problems involving algebraic representations of quadratic equations. 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: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 and DMA 060, or satisfactory test scores

This course provides a study of problems involving 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: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060 and DMA 070, or satisfactory test scores

This course provides a study of problems involving algebraic representations of the manipulation of radical expressions and the application of radical equations. Topics include simplifying and performing operations with radical expressions and rational exponents, solving radical equations, and determining the reasonableness of a solution. Upon completion, students should be able to find algebraic solutions to contextual problems with radical applications.

DEVELOPMENTAL READING & ENGLISH**DRE 096 Integrated Reading & Writing (2.5 - 1 - 3)**

This course is designed to develop proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are primarily taught at the introductory level using texts primarily in a Lexile® range of 960 to 1115. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs.

DRE 097 Integrated Reading & Writing II (2.5 - 1 - 3)

Prerequisite: DRE 096 or satisfactory test scores

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught at a reinforcement level using texts primarily in a Lexile® range of 1070 to 1220. Upon completion, students should be able to demonstrate and apply those skills toward understanding a variety of complex academic and career texts and composing essays incorporating relevant, valid evidence.

DRE 098 Integrated Reading & Writing III (2.5 - 1 - 3)

Prerequisite: DRE 097 or satisfactory test scores

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are taught using texts primarily in the Lexile® range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay.

DRE 099 Integrated Reading & Writing III (2 - 0 - 2)

Prerequisite: DRE 097 or satisfactory test scores

Corequisite: ENG 111

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies by complementing, supporting and reinforcing material covered in ENG 111. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught using texts primarily in the Lexile® range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay.

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.

DFT 170 Engineering Graphics (2-2-3)

This course introduces basic engineering graphics skills and applications. Topics include sketching, selection and use of current methods and tools, and the use of engineering graphics applications. Upon completion, students should be able to demonstrate an understanding of basic engineering graphics principles and practices.

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 for transfer under the CAA as a general education course 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 for transfer under the CAA as a general education course 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

EDUCATION**EDU 119 Introduction to Early Child Education (4-0-4)**

This course introduces the foundations of early childhood education, the diverse educational settings for young children, professionalism and planning intentionally developmentally appropriate experiences for each child. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to design a career/professional development plan, and appropriate environments, schedules, and activity plans.

EDU 131 Child, Family, & Community (3-0-3)

Corequisite: DRE 097

This course covers the development of partnerships between culturally, linguistically and ability diverse families, children, schools and communities through the use of evidence-based strategies. 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 reflective of the NAEYC Code of Ethical Conduct. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children, schools, and communities and demonstrate a variety of communication skills including appropriate use of technology to support every child.

EDU 144 Child Development I (3-0-3)

Corequisite: DRE 097

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

EDU 145 Child Development II (3-0-3)

Corequisite: DRE 097

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

EDU 146 Child Guidance (3-0-3)

Corequisite: DRE 097

This course introduces evidence-based strategies to build nurturing relationships with each child by applying principles and practical techniques to facilitate developmentally appropriate guidance. Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs. Upon completion, students should be able to demonstrate direct/indirect strategies to encourage social skills, self-regulation, emotional expression and positive behaviors while recognizing the relationship between children's social, emotional and cognitive development.

EDU 151 Creative Activities (3-0-3)

Corequisite: DRE 097

This course introduces developmentally supportive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and open-ended learning materials while applying NC Foundations for Early Learning and Development. Emphasis is placed on observation of process driven learning experiences in art, music, creative movement, dance, and dramatics for every young child age birth through eight, integrated through all domains and academic content. Upon completion, students should be able to examine, create, and adapt developmentally creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse.

EDU 153 Health, Safety & Nutrition (3-0-3)

Corequisite: DRE 097

This course covers promoting and maintaining the health and well-being of every child. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations. Upon completion, students should be able to apply knowledge of NC Foundations for Early Learning and Development for health, safety, nutritional needs and safe learning environments.

EDU 154 Social/Emotion/Behavioral Development (3-0-3)

Prerequisites: Take one set

Set 1: EDU 144, EDU 145

Set 2: PSY 244, PSY 245

Corequisite: DRE 097

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)

Corequisite: DRE 097

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)

Corequisite: DRE 097

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)

Corequisite: DRE 097

This course examines classroom management and evidence-based instructional strategies that create supportive learning environments to provide developmentally appropriate guidance for school-age populations. Topics include classroom management and organization, teaching strategies, individual student differences and learning styles, ongoing systematic observation, and developmentally appropriate classroom guidance techniques. Upon completion, students should be able to utilize developmentally appropriate behavior management and high quality instructional strategies that enhance the teaching/learning process and promote students' academic success.

EDU 175 Introduction to Trade & Industry (3-0-3)

Corequisite: DRE 097

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)

Corequisite: DRE 097

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)

Corequisite: DRE 097

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)

Corequisite: DRE 097

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)

Corequisite: DRE 097

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)

Prerequisite: EDU 119

Corequisite: DRE 097

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. Site visit placement outside of Jackson, Macon or Swain counties must be approved by the program coordinator.

EDU 216 Foundations of Education (4-0-4)

Prerequisite: DRE 098

This course introduces the American educational system and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in K-12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level. This course has been approved as a transferable elective for Western Carolina University.

EDU 221 Children with Exceptionalities (3-0-3)

Prerequisite: EDU 144 and EDU 145

Corequisite: DRE 098

This course covers atypical patterns of child development, inclusive/diverse settings, evidenced-based educational/family plans, differentiated instruction, adaptive materials, and assistive technology. Emphasis is placed on the characteristics of exceptionalities and delays, early intervention/special education, transitions, observation, developmental screening, formative assessment of children, and collaborating with families and community partners. Upon completion, students should be able to recognize diverse abilities, describe the referral process, identify community resources, explain the importance of collaboration with families/professionals, and develop appropriate strategies/adaptations to support children in all environments with best practices as defined by laws, policies and the NC Foundations for Early Learning and Development. This course has been approved as a transferable elective at select institutions only.

EDU 234 Infants, Toddlers, & Twos (3-0-3)

Prerequisite: EDU 119

Corequisite: DRE 098

This course covers the development of high-quality, individualized, responsive/engaging relationships and experiences for infants, toddlers, and twos. Emphasis is placed on typical and atypical child development, positive early learning experiences, supporting and engaging diverse families, providing safe, warm and nurturing interactions, and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate responsive planning, respectful relationships and exposure to a variety of developmentally appropriate experiences/materials that support a foundation for healthy development and growth of culturally, linguistically and ability diverse children birth to 36 months.

EDU 240 Work-Based Learning Practice & Techniques (3-0-3)

Corequisite: DRE 098

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 251 Exploration Activities (3-0-3)

Corequisite: DRE 098

This course covers fundamental concepts in the content areas of science, technology, engineering, math and social studies through investigative experiences. Emphasis is placed on exploring fundamental concepts, developmentally appropriate scope and sequence, and teaching strategies to engage each child in the discovery approach. Upon completion, students should be able to understand major concepts in each content area and implement appropriate experiences for young children.

EDU 259 Curriculum Planning (3-0-3)

Prerequisite: EDU 119

Corequisite: DRE 098

This course is designed to focus on using content knowledge to build developmentally effective approaches for culturally/linguistically/ability diverse young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use curriculum to plan for individual/group needs.

EDU 261 Early Childhood Administration I (3 -0 -3)

Corequisites: EDU 119 and DRE 098

This course introduces principles and practices essential to preparing and supporting child care administrators. Topics include program philosophy, policies and procedures, NC Child Care Law and Rules, business planning, personnel and fiscal management, and NAEYC Code of Ethical Conduct Supplement for Early Childhood Program Administration. Upon completion, students should be able to articulate a developmentally appropriate program philosophy, locate current state licensing regulations, analyze a business plan and examine comprehensive program policies and procedures.

EDU 262 Early Childhood Administration II (3-0-3)

Prerequisite: EDU 261 and EDU 119 and DRE 098

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)

Corequisite: DRE 098

This course introduces the ethical use of technology to enhance teaching and learning in all educational settings. Emphasis is placed on technology concepts, ethical issues, digital citizenship, instructional strategies, assistive technology, and the use of technology for professional development and communication. Upon completion, students should be able to discuss technology concepts, ethically use a variety of technology resources, demonstrate appropriate technology skills in educational environments, and identify assistive technology.

EDU 275 Effective Teacher Training (2-0-2)

Corequisite: DRE 098

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)

Corequisite: DRE 098

This course provides evidence-based strategies for enhancing language and literacy experiences that align with NC Foundations for Early Learning and Development. Topics include developmental sequences for children's emergent receptive and expressive language, print concepts, appropriate observations/assessments, literacy enriched environments, quality selection of diverse literature, interactive media, and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate language and literacy experiences for children who are culturally, linguistically and ability diverse.

EDU 281 Instruction Strategies/Reading & Writing (2-2-3)

Corequisite: DRE 098

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.

EDU 284 Early Child Capstone Practicum (1-9-4)

Prerequisites: EDU 119, EDU 144, EDU 145, EDU 146 and EDU 151

Corequisite: DRE 098

This course is designed to allow students to demonstrate acquired 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/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to apply NC Foundations for Early Learning and Development to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors, including the use of appropriate technology, as indicated by assignments and onsite faculty assessments. Site visit placement outside of Jackson, Macon or Swain counties must be approved by the program coordinator.

ENGINEERING**EGR 150 Introduction to Engineering (1-2-2)**

This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

EGR 250 Statics & Strengths of Materials (4-3-5)

Prerequisites: [MAT 171](#), [CIS 110](#)

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.

EGR 285 Design Project (0-4-2)

This course provides the opportunity to design an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate 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 117 Motors and Controls (2-6-4)

Prerequisite: [ELC 131](#)

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)

Prerequisite: [ELC 131](#)

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 Circuit Analysis I (3-3-4)

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, 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.

ELC 132 Electrical Drawings (1-3-2)

This course introduces the technical documentation that is typically found or used in the industrial environment. Topics include interpretation of service manuals, freehand sketching, orthographic views and dimensions, and print reading. Upon completion, students should be able to interpret technical documents and prints and use basic drafting skills to prepare usable field drawings.

ELC 213 Instrumentation (3-2-4)

This course covers the fundamentals of instrumentation used in industry. Emphasis is placed on electric, electronic, and other instruments. Upon completion, students should be able to install, maintain, and calibrate instrumentation.

ELC 228 PLC Applications (2-6-4)

Prerequisite: [ELC 131](#)

This course covers programming and applications of programmable logic controllers. Emphasis is placed on programming techniques, networking, specialty I/O modules, and system troubleshooting. Upon completion, students should be able to specify, implement, and maintain complex PLC controlled systems.

ELECTRONICS**ELN 131 Analog Electronics I (3-3-4)**

Prerequisite: [ELC 131](#)

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 analog circuits using appropriate techniques and test equipment.

ELN 132 Analog Electronics II (3-3-4)

Prerequisite: [ELC 131](#)

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)

Prerequisite: [ELC 131](#)

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, electromechanical 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 237 Local Area Networks (LANs) (2-3-3)

This course introduces the fundamentals of local area networks and their operation. Topics include the characteristics of network topologies, system hardware, system configuration, installation and operation of the LAN. Upon completion, students should be able to install and maintain a local area network.

ELN 238 Advanced LANs (2-3-3)

This course covers advanced concepts, tools, and techniques associated with servers, workstations, and overall local area network performance. Topics include network security and configuration, system performance and optimization, communication protocols and packet formats, troubleshooting techniques, multi-platform integration, and other related topics. Upon completion, students should be able to use advanced techniques to install, manage, and troubleshoot networks and optimize server and workstation performance.

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)

Prerequisite: [ELC 131](#)

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)

Prerequisite: [ELC 131](#)

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; safety 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 (6-6-8)**

Corequisite: ACA 111 or ACA 122

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 certification.

EMS 120 Advanced EMT (4-6-6)

Prerequisite: EMS 110

Corequisite: EMS 121

This course is designed to provide the essential information on interventions/treatments appropriate to the Advanced EMT and is required for Advanced EMT certification. Topics include airway management, automatic external defibrillation, cardiac electrophysiology, vascular access, acid-base balance, pharmacology, medical emergencies, traumatic injuries, and fluids and electrolytes. Upon completion, students should be able to properly obtain vascular access, manage medical and trauma patients, utilize simple and advanced airways, and correctly interpret arterial blood gases.

EMS 121 AEMT Clinical Practicum (0-6-2)

Prerequisite: EMS 110

Corequisite: EMS 120

This course is the hospital and field internship and is required for Advanced EMT certification. Emphasis is placed on Advanced EMT care. Upon completion, students should be able to demonstrate competence at the Advanced EMT skill level.

EMS 122 EMS Clinical Practicum I (0-0-3-1)

Prerequisite: EMS 110

Corequisite: EMS 130

This course introduces the fundamental principles of pharmacology and medication administration and is required for paramedic certification. Topics include medical terminology, pharmacological concepts, weights, measures, drug calculations, vascular access for fluids and medication administration and legislation. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology.

EMS 130 Pharmacology (3-3-0-4)

Prerequisite: EMS 110

Corequisites: EMS 122, MAT 143

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

This course is designed to provide advanced airway management techniques and is required for 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 160 Cardiology (1-3-2)

Prerequisite: EMS 110

This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and basic rhythm interpretation in the monitoring leads. Upon completion, students should be able to recognize and interpret basic rhythms.

EMS 220 Cardiology II (2-3-3)

Prerequisites: EMS 122, EMS 130, and EMS 160

This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include assessment and treatment of cardiac emergencies, application and interpretation of advanced electrocardiography utilizing the twelve-lead ECG, cardiac pharmacology, and patient care. Upon completion, students should be able to assess and treat patients utilizing American Heart Association guidelines.

EMS 221 EMS Clinical Practicum II (0-6-2)

Prerequisites: EMS 122 and EMS 130

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on increasing the proficiency of students' skills and abilities in patient assessments and the delivery of care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.

EMS 231 EMS Clinical Practicum III (0-9-3)

Prerequisites: EMS 130 and EMS 221

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on enhancing the students' skills and abilities in providing 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 Patients with Special Challenges (1-2-2)

Prerequisites: EMS 122 and EMS 130

This course includes concepts of crisis intervention and techniques of interacting with patients with special challenges and is required for paramedic certification. Topics include appropriate intervention and interaction for neglected, abused, terminally ill, chronically ill, technology assisted, bariatric, physically challenged, mentally challenged, or assaulted patients as well as behavioral emergencies. Upon completion, students should be able to recognize and manage the care of patients with special challenges.

EMS 241 EMS Clinical Practicum IV (0-12-4)

Prerequisites: EMS 130 and EMS 231

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on mastering the skills/competencies required of the paramedic providing 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 Medical Emergencies (3-3-4)

Prerequisites: EMS 122 and EMS 130

This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include appropriate interventions/treatments for disorders/diseases/injuries affecting the following systems: respiratory, neurological, abdominal/gastrointestinal, endocrine, genitourinary, musculoskeletal, and immunological as well as toxicology, infectious diseases and diseases of the eyes, ears, nose and throat. Upon completion, students should be able to recognize, assess and manage the care of frequently encountered medical conditions based upon initial patient assessment.

EMS 260 Trauma Emergencies (1-3-2)

Prerequisites: EMS 122 and EMS 130

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 an overview of thoracic, abdominal, genitourinary, orthopedic, neurological, and multi-system trauma, soft tissue trauma of the head, neck, and face as well as environmental emergencies. Upon completion, students should be able to recognize and manage trauma situations based upon patient assessment and should adhere to standards of care.

EMS 270 Life Span Emergencies (2-3-3)

Prerequisites: EMS 122 and EMS 130

This course covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death required for paramedic certification. 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.

EMS 280 EMS Bridging Course (2-2-3)

This course is designed to bridge the knowledge gained in a continuing education paramedic program with the knowledge gained in an EMS curriculum program. Emphasis is placed on patient assessment, advanced electrocardiography utilizing the twelve lead ECG, advanced pharmacology, the appropriate intervention and treatment of multi-system injuries/disorders, ethics, and NC laws and rules. Upon completion, students should be able to perform advanced patient assessment and practice skills.

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 111 Writing and Inquiry (3-0-3)**

Prerequisite: DRE 098

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. This course has been approved for transfer under the CAA as a general education course in English Composition.

ENG 111A Writing and Inquiry Lab (0-2-1)

Prerequisite: DRE 098

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 Writing & Research in the Disciplines (3-0-3)

Prerequisite: ENG 111

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines. This course has been approved for transfer under the CAA as a general education course 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 for transfer under the CAA as a general education course 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 for transfer under the CAA 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 for transfer under the CAA as a premajor and/or elective course requirement.

ENG 231 American Literature I (3-0-3)

Prerequisite: ENG 112 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

ENG 232 American Literature II (3-0-3)

Prerequisites ENG 112 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

ENG 241 British Literature I (3-0-3)

Prerequisite: ENG 112 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

ENG 242 British Literature II (3-0-3)

Prerequisite: ENG 112 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

ENTREPRENEURSHIP**ETR 210 Introduction to Entrepreneurship (3-0-3)**

This course provides a survey of the starting and operating of an entrepreneurial venture. Topics include new venture creation, the business plan, economics of the business, determining resource needs and acquiring resources, marketing, technology, leadership skills, and business ethics. Upon completion, students should be able to demonstrate an understanding of entrepreneurship concepts and how to use the entrepreneurial mindset to succeed in their careers.

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)

Prerequisite: 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.

FIRE PROTECTION**FIP 120 Intro to Fire Protection (3-0-3)**

This course provides an overview of the development, methods, systems and regulations that apply to the fire protection field. Topics include history, evolution, statistics, suppression, organizations, careers, curriculum, and related subjects. Upon completion, students should be able to demonstrate a broad understanding of the fire protection field.

FIP 124 Fire Prevention & Public Education (3-0-3)

This course introduces fire prevention concepts as they relate to community and industrial operations referenced in NFPA standard 101. Topics include the development and maintenance of fire prevention programs, educational programs, and inspection programs. Upon completion, students should be able to research, develop, and present a fire safety program to a citizens or industrial group, meeting.

FIP 128 Detection & Investigation (3-0-3)

This course covers procedures for determining the origin and cause of accidental and incendiary fires referenced in NFPA standard 921. Topics include collection and preservation of evidence, detection and determination of accelerants, courtroom procedure and testimony, and documentation of the fire scene. Upon completion, students should be able to conduct a competent fire investigation and present those findings to appropriate officials or equivalent, meeting.

FIP 132 Building Construction (3-0-3)

This course covers the principles and practices referenced in NFPA standard 220 related to various types of building construction, including residential and commercial, as impacted by fire conditions. Topics include types of construction and related elements, fire resistive aspects of construction materials, building codes, collapse, and other related topics. Upon completion, students should be able to understand and recognize various types of construction and their positive or negative aspects as related to fire conditions.

FIP 136 Inspections & Codes (3-0-3)

This course covers the fundamentals of fire and building codes and procedures to conduct an inspection referenced in NFPA standard 1730. Topics include review of fire and building codes, writing inspection reports, identifying hazards, plan reviews, site sketches, and other related topics. Upon completion, students should be able to conduct a fire code compliance inspection and produce a written report.

FIP 144 Sprinklers & Auto Alarms (2-2-3)

This course introduces various types of automatic sprinklers, standpipes, and fire alarm systems. Topics include wet or dry systems, testing and maintenance, water supply requirements, fire detection and alarm systems, and other related topics. Upon completion, students should be able to demonstrate a working knowledge of various sprinkler and alarm systems and required inspection and maintenance.

FIP 146 Fire Protection Systems (3-2-4)

This course introduces various types of automatic sprinklers, standpipes, fire alarm systems, and fixed and portable extinguishing systems referenced in NFPA standard 25, including their operation, installation, and maintenance. Topics include wet and dry systems, testing and maintenance, water supply requirements, fire detection and alarm systems, including application, testing, and maintenance of Halon, carbon dioxide, dry chemical, and special extinguishing agents utilized in fixed and portable systems. Upon completion, students should be able to demonstrate a working knowledge of sprinkler and alarm systems, both fixed and portable, including appropriate application, operation, inspection, and maintenance requirements.

FIP 152 Fire Protection Law (3-0-3)

This course covers fire protection law as referenced in NFPA standard 1. Topics include legal terms, contracts, liability, review of case histories, and other related topics. Upon completion, students should be able to discuss laws, codes, and ordinances as they relate to fire protection.

FIP 164 OSHA Standards (3-0-3)

This course covers public and private sector OSHA work site requirements referenced in NFPA standard 1250. Emphasis is placed on accident prevention and reporting, personal safety, machine operations, and hazardous material handling. Upon completion, students should be able to analyze and interpret specific OSHA regulations and write workplace policies designed to achieve compliance.

FIP 188 Introduction to Wildland Fires (3-2-4)

This course introduces basic wildland fire suppression functions referenced in NFPA standard 1143. Emphasis is placed on the operation of tools, equipment, aircraft, and basic fire suppression methods. Upon completion, students should be able to understand basic theories in wildland fire suppression and demonstrate them through written and performance evaluations.

FIP 220 Fire Fighting Strategies (3-0-3)

This course provides preparation for command of initial incident operations involving emergencies within both the public and private sector referenced in NFPA standards 1561, 1710, and 1720. Topics include incident management, fire-ground tactics and strategies, incident safety, and command/control of emergency operations. Upon completion, students should be able to describe the initial incident system as it relates to operations involving various emergencies in fire and non-fire situations.

FIP 221 Advanced Fire Fighting Strategies (3-0-3)

Prerequisite: FIP 220

This course covers command-level operations for multi-company/agency operations involving fire and non-fire emergencies. Topics include advanced Incident Command System (ICS), advanced incident analysis, command-level fire operations, and control of both manmade and natural major disasters. Upon completion, students should be able to describe proper and accepted systems for the mitigation of emergencies at the level of overall scene command.

FIP 224 Fire Instructor I & II (4-0-4)

This course covers the knowledge, skills, and abilities needed to train others in fire service operations. Topics include planning, presenting, and evaluating lesson plans, learning styles, use of media, communication, and other related topics. Upon completion, students should be able to meet the requirements of the Fire Instructor I and II objectives from National Fire Protection Association (NFPA) 1041.

FIP 226 Fire Officer I & II (4-0-4)

This course covers the knowledge, skills, and requirements referenced in the National Fire Protection Association (NFPA) Standard 1021 for Fire Officer I and II training. Topics include officer roles and responsibilities, budgets, fire cause determination, inspections, education, leadership, management, public relations, and other requirements included in the NFPA standard. Upon completion, students should be able to demonstrate an understanding of relevant NFPA standards as required for state Fire Officer I and II certification.

FIP 228 Local Government Finance (3-0-3)

This course introduces local governmental financial principles and practices. Topics include budget preparation and justification, revenue policies, statutory requirements, audits, and the economic climate. Upon completion, students should be able to comprehend the importance of finance as it applies to the operations of a department.

FIP 230 Chemistry of Hazardous Materials I (5-0-5)

This course covers the evaluation of hazardous materials referenced in NFPA standard 1072. Topics include use of the periodic table, hydrocarbon derivatives, placards and labels, parameters of combustion, and spill and leak mitigation. Upon completion, students should be able to demonstrate knowledge of the chemical behavior of hazardous materials.

FIP 232 Hydraulics & Water Distribution (2-2-3)

This course covers the flow of fluids through fire hoses, nozzles, appliances, pumps, stand-pipes, water mains, and other devices referenced in NFPA standard 25. Emphasis is placed on supply and delivery systems, fire flow testing, hydraulic calculations, and other related topics. Upon completion, students should be able to perform hydraulic calculations, conduct water availability tests, and demonstrate knowledge of water distribution systems.

FIP 236 Emergency Management (3-0-3)

This course covers the four phases of emergency management: mitigation, preparedness, response, and recovery. Topics include organizing for emergency management, coordinating for community resources, public sector liability, and the roles of government agencies at all levels. Upon completion, students should be able to demonstrate an understanding of comprehensive emergency management and the integrated emergency management system.

FIP 240 Fire Service Supervision (3-0-3)

This course covers supervisory skills and practices in the fire protection field. Topics include the supervisor's job, supervision skills, the changing work environment, managing change, organizing for results, discipline and grievances, and safety. Upon completion, students should be able to demonstrate an understanding of the roles and responsibilities of effective fire service supervision, meeting elements of NFPA 1021.

FIP 248 Fire Service Personnel Administration (3-0-3)

This course covers the basics of setting up and administering the personnel functions of fire protection organizations referenced in NFPA standard 1021. Emphasis is placed on human resource planning, classification and job analysis, equal opportunity employment, affirmative action, recruitment, retention, development, performance evaluation, and assessment centers. Upon completion, students should be able to demonstrate knowledge of the personnel function as it relates to managing fire protection.

FIP 256 Munic. Public Relations (3-0-3)

This course is a general survey of municipal public relations and their effect on the governmental process referenced in NFPA standard 1035. Topics include principles of public relations, press releases, press conferences, public information officers, image surveys, and the effects of perceived service on fire protection delivery.

FIP 260 Fire Protect Planning (3-0-3)

This course covers the need for a comprehensive approach to fire protection planning referenced in NFPA standards 424 and 1620. Topics include the planning process, using an advisory committee, establishing goals and objectives, and techniques used to approve and implement a plan. Upon completion, students should be able to demonstrate a working knowledge of the concepts and principles of planning as it relates to fire protection.

FIP 276 Managing Fire Services (3-0-3)

This course provides an overview of fire department operative services referenced in NFPA standard 1021. Topics include finance, staffing, equipment, code enforcement, management information, specialized services, legal issues, planning, and other related topics. Upon completion, students should be able to understand concepts and apply fire department management and operations principles.

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.

GERMAN**GER 111 Elementary German I (3-0-3)**

This course introduces the fundamental elements of the German 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 German and demonstrate cultural awareness. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

GER 112 Elementary German II (3-0-3)

Prerequisite: GER 111

This course is a continuation of GER 111 focusing on the fundamental elements of the German 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 German and demonstrate further cultural awareness. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

GER 181 German Lab I (0-2-1)

This course provides an opportunity to enhance acquisition of the fundamental elements of the German language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written German and demonstrate cultural awareness. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

GER 182 German Lab II (0-2-1)

Prerequisite: GER 181

This course provides an opportunity to enhance acquisition of the fundamental elements of the German language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written German and demonstrate cultural awareness. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

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 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)

Prerequisite: 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)

Prerequisite: 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 (1-3-2)

This course explores the origins, roles, scope, forms, and development of advertising. Emphasis is placed on advertising development from idea through production and the inter-relationship of marketing to types of advertising, media, and organizational structure. Upon completion, students should be able to produce advertising for various media and 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 and Wellness (3-0-3)**

Prerequisite: DRE 098

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 for transfer under the CAA as a premajor and/or elective course requirement.

HISTORY**HIS 111 World Civilizations I (3-0-3)**

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

HIS 112 World Civilizations II (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

HIS 121 Western Civilization I (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

HIS 122 Western Civilization II (3-0-3)

Prerequisite: [DRE 098](#) 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

HIS 131 American History I (3-0-3)

Prerequisite: [DRE 098](#) 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

HIS 132 American History II (3-0-3)

Prerequisite: [DRE 098](#) 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

HIS 237 The American Revolution (3-0-3)

Prerequisite: [DRE 098](#) or [satisfactory test scores](#)

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 for transfer under the CAA as a premajor and/or elective course requirement.

HIS 275 History of Terrorism (3-0-3)

Prerequisite: [DRE 098](#) or [satisfactory test scores](#)

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 for transfer under the CAA 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)

Prerequisite: MAT 110 or MAT 143

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: 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.

HSC 120 CPR (0-2-0-1)

This course covers the basic knowledge and skills for the performance of infant, child, and adult CPR and the management of foreign body airway obstruction. Emphasis is placed on recognition, assessment, and proper management of emergency care. Upon completion, students should be able to perform infant, child, and adult CPR and manage foreign body airway obstructions.

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 and be able to successfully pass the Manage First competency exam from the NRA.

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 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 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.

HUMANITIES**HUM 110 Technology and Society (3-0-3)**

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

HUM 115 Critical Thinking (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

HUM 121 The Nature of America (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

HUM 122 Southern Culture (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

HUM 130 Myth in Human Culture (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

HUM 160 Introduction to Film (2-2-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

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 for transfer under the CAA as a premajor and/or elective course requirement.

HYDRAULICS**HYD 110 Hydraulics/Pneumatics I (2-3-3)**

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting.

INDUSTRIAL SCIENCE**ISC 112 Industrial Safety (2-0-3)**

This course introduces the principles of industrial safety. Emphasis is placed on industrial safety and OSHA regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.

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, recording, 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.

LIGHT-DUTY DIESEL**LDD 112 Introduction to Light-Duty Diesel (2-2-3)**

This course covers the history, evolution, basic design and operational parameters for light-duty diesel (LDD) engines used in on-road applications. Topics include familiarization with the light-duty diesel, safety procedures, engine service and maintenance procedures, and introduction to combustion and emission chemistry. Upon completion, students should be able to describe the design and operation of the LDD, perform basic service operations, and demonstrate proper safety procedures.

MATHEMATICS**MAT 001 Math Skills Support (0-2-1)**

Corequisites: MAT 110, MAT 121, MAT 143, MAT 152, or MAT 171

This course provides opportunities for students to build a stronger foundation for success in their corequisite math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the co-requisite math course. Upon completion, students should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's co-requisite math course.

MAT 110 Mathematical Measurement and Literacy (2-2-3)

Prerequisites: DMA 010, DMA 020, DMA 030

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

MAT 121 Algebra/Trigonometry I (2-2-3)

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DMA 060, or satisfactory test scores

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 the properties of plane and solid geometry, area and volume, and basic proportion applications; simplification, evaluation, and solving of algebraic equations and inequalities and radical functions; complex numbers; right triangle trigonometry; and systems of equations. Upon completion, students will be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

MAT 122 Algebra/Trigonometry II (2-2-3)

Prerequisite: MAT 121

This course is designed to cover concepts in algebra, function analysis, and trigonometry. Topics include exponential and logarithmic functions, transformations of functions, Law of Sines, Law of Cosines, vectors, and statistics. Upon completion, students should be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

MAT 141 Mathematical Concepts I (3-0-3)

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040 and DMA 050, or MAT 121 or MAT 171, and DRE 098 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. Under the CAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.

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. Under the CAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.

MAT 143 Quantitative Literacy (2-2-3)

Prerequisites: DMA 010, 020, 030, 040, 050 and DRE 098, or satisfactory test scores

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life. This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

MAT 152 Statistical Methods I (3-2-4)

Prerequisites: DMA 010, 020, 030, 040, 050 and DRE 098, or satisfactory test scores

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results. This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

MAT 171 Precalculus Algebra (3-2-4)

Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, and DMA 080 and DRE 098; or MAT 121; or satisfactory test scores

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology. This course has been approved for transfer under the CAA as a general education course in Mathematics.

MAT 172 Precalculus Trigonometry (3-2-4)

Prerequisite: MAT 171 or satisfactory test scores

This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinates, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology. This course has been approved for transfer under the CAA as a general education course in Mathematics.

MAT 271 Calculus I (3-2-4)

Prerequisite: MAT 172 or satisfactory test scores

This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to derivative-related problems with and without technology. This course has been approved for transfer under the CAA as a general education course in Mathematics.

MAT 272 Calculus II (3-2-4)

Prerequisite: MAT 271

This course is designed to develop advanced topics of differential and integral calculus. Emphasis is placed on the 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 select and use appropriate models and techniques for finding solutions to integral-related problems with and without technology. This course has been approved for transfer under the CAA as a general education course in Mathematics.

MAT 273 Calculus III (3-2-4)

Prerequisite: MAT 272

This course is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, solid analytical geometry, vector valued functions, and line and surface integrals. Upon completion, students should be able to select and use appropriate models and techniques for finding the solution to multivariate-related problems with and without technology. This course has been approved for transfer under the CAA as a general education course in Mathematics.

MAT 280 Linear Algebra (2-2-3)

Prerequisite: MAT 271

This course provides an introduction to linear algebra topics. Emphasis is placed on the development of abstract concepts and applications for vectors, systems of equations, matrices, determinants, vector spaces, multi-dimensional linear transformations, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to linear algebra-related problems with and without technology. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

MECHANISMS**MEC 130 Mechanisms (2-2-3)**

This course introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices. Upon completion, students should be able to analyze, maintain, and troubleshoot the components of mechanical systems.

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 perfecting 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.

MKT 232 Social Media Marketing (3-2-4)

This course is designed to build students' social media marketing skills by utilizing projects that give students hands on experience implementing social media marketing strategies. Topics include integrating different social media technologies into a marketing plan, creating social media marketing campaigns, and applying appropriate social media tools. Upon completion, students should be able to use social media technologies to create and improve marketing efforts for businesses.

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 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 126 Immunology and Serology (1-2-0-2)

This course introduces the immune system and response and basic concepts of antigens, antibodies, and their reactions. Emphasis is placed on basic principles of immunologic and serodiagnostic techniques and concepts of cellular and humoral immunity in health and disease. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing and interpreting routine immunologic and serodiagnostic procedures.

MLT 127 Transfusion Medicine (2-3-0-3)

This course introduces the blood group systems and their applications in transfusion medicine. Emphasis is placed on blood bank techniques including blood grouping and typing, pretransfusion testing, donor selection and processing, and blood component preparation and therapy. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing/interpreting routine blood bank procedures and recognizing/resolving common problems.

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 230 Clinical Chemistry (2-3-0-3)

Prerequisite: MLT 130

This course is designed to supplement the biochemical and physiologic theory presented in MLT 130. Emphasis is placed on special chemistry techniques and methodologies. Upon completion, students should be able to recognize and differentiate technical and physiological causes of unexpected test results.

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)

Corequisite: [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 261 MLT Practicum II (0-0-3-1)

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 (Microbiology) (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 273 MLT Practicum III (Immunohematology/Hematology/Hemastasis/Chemistry Clinic) (0-0-18-6)

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 276 MLT Practicum III

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 121 Clinical Supplement I (0-0-3-1)

Corequisite: Take one: MTH-110, MTH-120, MTH-125

This course is designed to introduce the student to a variety of clinical experiences. Emphasis is placed on applying the therapeutic massage process across the lifespan. Upon completion, students should be able to demonstrate delivery of massage techniques in a clinical setting.

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.

MTH 130 Therapeutic Massage Management (2-0-0-2)

Prerequisite: MTH 110

This course introduces the basic responsibilities in the development and administration of a professional massage therapy practice. Emphasis is placed on identifying successful practice management methods such as selecting a business structure, negotiating a contract/lease, developing a business/marketing plan, designing a massage space, differentiating spa from clinical practice, management of client/financial records and physician referral. Upon completion, students should be able to demonstrate the knowledge and skills necessary to develop and manage a massage therapy practice.

MTH 210 Advanced Skills of Massage (4-9-3-8)

Prerequisite: MTH 120 or MTH 121

This course provides knowledge and skills in diverse body work modalities in a variety of clinical settings. Emphasis is placed on selected techniques such as Neuromuscular Therapy, Sports Massage, Soft Tissue Release, Spa Approaches, Oriental Therapies, and energy techniques. Upon completion, students should be able to perform basic skills in techniques covered.

MTH 220 Outcome-Based Massage (4-6-3-7)

Prerequisite: MTH 120 or MTH 121

This course provides knowledge and skills in more complex body works modalities in a variety of clinical settings. Emphasis is placed on developing advanced skills in outcome-based Massage. Upon completion, students should be able to perform basic skills in techniques covered.

MUSIC**MUS 110 Music Appreciation (3-0-3)**

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

MUS 112 Introduction to Jazz (3-0-3)

Prerequisite: DRE 098 or satisfactory test scores

This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

NURSE AIDE**NAS 101 Nurse Aide I (3-4-3-6)**

This course includes basic nursing skills required to provide safe, competent personal care for individuals. Emphasis is placed on person-centered care, the aging process, communication, safety/emergencies, infection prevention, legal and ethical issues, vital signs, height and weight measurements, elimination, nutrition, basic restorative care/rehabilitation, dementia, mental health and end-of-life care. Upon completion, students should be able to demonstrate knowledge and skills and be eligible to test for listing on the North Carolina Nurse Aide I Registry.

NAS 102 Nurse Aide II (3-2-6-6)

Prerequisite: NAS 101

This course provides training in Nurse Aide II tasks. Emphasis is placed on the role of the Nurse Aide II, sterile technique and specific tasks such as urinary catheterization, wound care, respiratory procedures, ostomy care, peripheral IV assistive activities, and alternative feeding methods. Upon completion, students should be able to demonstrate knowledge and skills and safe performance of skills necessary to be eligible for listing on the North Carolina Nurse Aide II Registry.

NAS 106 Geriatric Aide (5-0-3-6)

Prerequisite: NAS 101

This course is designed to enhance the knowledge of the Nurse Aide I providing care to the aging population. Emphasis is placed on the person-centered care, stress management, health promotion, dementia/challenging behaviors, mental health issues, and end-of-life/palliative care. Upon completion, students should be able to demonstrate knowledge and provide safe care for the aging population and are eligible to be listed on the North Carolina Geriatric Nurse Aide registry.

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 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)

Prerequisite: [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.

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

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

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 230 Windows Administration I (2-2-3)

Prerequisite: NOS 110

This course covers the installation and configuration of a Windows Server operating system. Emphasis is placed on the basic configuration of core network services, Active Directory and group policies. Upon completion, students should be able to install and configure a Windows Server operating system.

NOS 231 Windows Administration II (2-2-3)

Prerequisite: NOS 230

This course covers the management of a Windows Server operating system. Emphasis is placed on the deployment of print services, network services, Active Directory, group policies and access controls. Upon completion, students should be able to deploy and manage services on a Windows Server operating system.

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)

Prerequisite: 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)

Prerequisite: 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)

Prerequisite: 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 117 Pharmacology (1-3-0-2)

This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability, pharmacokinetics, routes of medication administration, contraindications and side effects. Upon completion, students should be able to compute dosages and administer medication safely.

NUR 211 Health Care Concepts (3-0-6-5)

Prerequisite: 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)

Prerequisite: 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)

Prerequisite: 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)

Prerequisite: 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 215 Paramedic/RN Bridge Concepts (3-3-0-6)

This course is designed to introduce concepts within the three domains of the individual, healthcare, and nursing as the Associate Degree in Emergency Medical Science Paramedic transitions to the nursing role. Emphasis is placed on the concepts within each domain including evidenced-based practice, quality improvement, communication, safety, interdisciplinary team, collaboration, clinical decision-making, professional behaviors, informatics, assessment, perfusion, oxygenation, elimination, and cellular regulation. 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)

Prerequisite: 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)

Prerequisite: 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)**

Prerequisite: *DRE 098 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 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 222 Minimum Impact Outdoor Skills (0-2-0-1)

This course introduces students to the principles of minimum impact outdoor activity skills, ethics, and techniques for reducing human impact in the environment. Emphasis is placed on providing students with comprehensive training in minimum impact outdoor skills and ethics, through practical application in a field-based setting. Upon completion, students should be able to effectively teach minimum impact techniques applicable to outdoor activities.

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 245 Wilderness Therapeutic Models (2-2-0-3)

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 (1-6-0-3)

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 (0-2-0-1)

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 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 275 Advanced Swift Water Rescue (0-2-0-1)

This course is designed to take the student beyond the emphasis of self-rescue to concentrate on victim rescue in swift water and flood environments. Topics include rope systems, management of litter and patient raising systems, advanced river search concepts and management of complex rescue scenes. Upon completion, students should be able to perform rescues in complex swift water environments.

ODL 277 Technical Rope Rescue (1-2-0-2)

This course is designed to take students from over-the-bank rescues to progressively more vertical rescues. Topics include such skills as pre-planning, size-up and scene management, ascending and descending, belaying, mechanical advantage systems, lowering and raising systems, patient packaging and litter attending, tethers, and high lines. Upon completion, students should be able to effectively perform technical rope rescues.

ODL 286 Issues in Outdoor Leadership (2-2-0-3)

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.

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 Insurance & Billing (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 153 Office Finance Solutions (2-2-3)

Prerequisite: CIS 110, CIS 111 or OST 137

This course introduces basic bookkeeping concepts. Topics include entering data in accounts payable and receivable, keeping petty cash records, maintaining inventory, reconciling bank statements, running payroll, and generating simple financial reports. Upon completion, students should be able to demonstrate competence in the entry and manipulation of data to provide financial solutions for the office.

OST 164 Office Editing (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.

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 288 Medical Office Administration Capstone (2-2-3)

Prerequisite: 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 Office Administration Capstone (2-2-3)

Prerequisites: OST 164 and OST 136

This course is designed to be a capstone course for the office professional and provides a working knowledge of administrative office procedures. Emphasis is placed on written and oral communication skills, office software applications, office procedures, ethics, and professional development. Upon completion, students should be able to adapt in an office environment.

OCCUPATIONAL THERAPY**OTA 110 Fundamentals of OT (2-3-3)**

Corequisite: BIO 168

This course introduces occupational therapy theory, practice, philosophy, and principles. Emphasis is placed on providing a basic understanding of the profession as well as beginning to develop interaction and observation skills. Upon completion, students should be able to demonstrate basic understanding of the domain and practice of occupational therapy, practice settings and professional roles, OT terminology, activity analysis, principles, process, philosophies, and frames of reference.

OTA 120 OTA Media I (1-3-2)

Corequisite: OTA 110

This course provides training in recognizing the therapeutic value and use of a wide variety of human occupations including basic activities of daily living, instrumental activities of daily living, rest and sleep, education, work, play, leisure, and social participation. Topics include the understanding of different teaching and learning methods and styles, the language of occupational therapy (OT), OT interventions including preparatory methods and tasks, and restorative and compensatory techniques. Upon completion, students should be able to analyze, design, select, and safely perform occupation related activities that would be therapeutic for various populations across the lifespan.

OTA 130 Assessment Skills (2-3-3)

Corequisite: OTA 110

This course provides training in appropriate and accurate assessment and intervention skills related to sensation, movement, vision, perception, cognition, emotions, and performance of basic activities of daily living and instrumental activities of daily living. Topics include physical and psychosocial factors affecting performance; and sensory, range of motion, strength, coordination, cognitive, visual-perceptual, self-care, and work-related assessments. Upon completion, students should be able to gather and share data for the purpose of screening and evaluation, administer selected assessments using appropriate procedures and protocols, and articulate the role of the occupational therapy assistant and occupational therapist in the screening and evaluation process.

OTA 140 Professional Skills I (0-3-1)

Corequisite: OTA 110

This course introduces the roles and responsibilities of the occupational therapy assistant (OTA) and the occupational therapist (OT) in occupational therapy practice and facilitates development of professional behaviors and skills. Topics include professional ethics, supervisory roles, responsibilities, and collaborative professional relationships; credentialing, certification, and licensure; documentation, which communicates the need and rationale for occupational therapy services; therapeutic use of self; and professional identity and professional behaviors; and observation skills. Upon completion, students should be able to demonstrate ethical behavior, discriminate between roles and responsibilities of the OTA and OT, and explain acceptable supervision and documentation.

OTA 150 Peds Concepts and Interventions I (2-3-3)

Corequisites: PSY 241 and OTA 170

This course provides knowledge and skills needed for working with children from birth through adolescence. Topics include review of normal growth and development, habituation of healthy habits/routines, the role of occupational therapy with caregivers/providers, understanding of common conditions and developmental delays; and the role of occupation in assessment, intervention planning and implementation with pediatric populations. Upon completion, students should be able to plan, implement, and modify appropriate interventions with children in their context and environment to promote engagement in occupation.

OTA 161 Fieldwork I – Placement 1 (0-3-1)

Prerequisites: OTA 120 and OTA 140

Corequisite: OTA 130

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

OTA 162 Fieldwork I-Placement 2 (0-3-1)

Prerequisites: OTA 120 and OTA 140

Corequisite: OTA 130

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

OTA 163 Fieldwork I-Placement 3 (0-3-1)

Prerequisites: OTA 120 and OTA 140

Corequisite: OTA 130

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

OTA 170 Physical Conditions (2-3-3)

Corequisite: OTA 130

This course is designed to provide knowledge and skills needed for working with individuals experiencing varied medical conditions to help them achieve participation in life through engagement in occupation. Topics include medical terminology, common conditions, body functions that change with disease processes, applicable theories and principles, assessment and intervention priorities for commonly treated conditions. Upon completion, students should be able to recognize common symptoms, prioritize mental, neuromusculoskeletal and movement related functional problems, while providing for patient safety within the patient's context and environment.

OTA 180 Psychosocial Conditions (2-3-3)

Prerequisite: PSY 281

Corequisite: OTA 130

This course is designed to provide knowledge and skills needed for working with individuals experiencing various psychosocial conditions to help them achieve participation in life through engagement in occupation. Topics include mental health conditions, applicable theories and principles, symptoms of dysfunction, assessment and treatment of individuals, planning and facilitating therapeutic groups, client safety, therapeutic use of self, and psychosocial aspects of practice. Upon completion, students should be able to effectively plan and conduct individual and group interventions for client conditions related to psychosocial dysfunction while recognizing contexts and environments that may also impact occupational performance.

OTA 220 OT Media II (1-6-3)

Prerequisites: OTA 120 and OTA 130

This course provides training in appropriate and accurate assessment and intervention skills related to orthotics, prosthetics, assistive devices, assistive technology, client mobility, and Americans with Disabilities Act (ADA) issues. Topics include ergonomics seating and positioning, community mobility, use of physical agent modalities, and technology in occupational therapy intervention. Upon completion, students should be able to demonstrate competency fabricating and utilizing orthotic and assistive devices, understanding ADA guidelines, and using technology for engagement in occupation.

OTA 240 Professional Skills II (0-3-1)

Prerequisite: OTA 140

This course covers professional development, supervisory relationships, involvement in the profession, and clinic management skills. Topics include clarification of roles and responsibilities, detailed examination of the supervisory process, participation in professional organizations, and the mechanics of assisting in clinic operations. Upon completion, students should be able to work effectively with a supervisor, plan and implement a professional activity, and perform routine clinic management tasks.

OTA 250 Adult Concepts and Interventions (2-3-3)

Corequisites: PSY 241, OTA 170, and OTA 180

This course provides knowledge and skills needed for working with adults through the lifespan. Emphasis is placed on identification and discussion of common changes associated with aging, disabilities and chronic diseases affecting this population, assessments and intervention, including developing healthy habits and routines, and the impact on participation in occupation in various settings. Upon completion, students should be able to plan, implement, and modify appropriate interventions with adults in their context and environment to promote engagement in occupations.

OTA 260 Level II Fieldwork Placement 1 (0-18-6)

This course provides clinical experience under the direct supervision of experienced occupational therapists or occupational therapy assistant practitioners working in various practice settings. Emphasis is placed on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies established by the curriculum and AOTA guidelines, and regulatory bodies.

OTA 261 Level II Fieldwork Placement 2 (0-18-6)

This course provides the final clinical experience under the direct supervision of experienced occupational therapists or occupational therapy assistant practitioners working in various practice settings. Emphasis is placed on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies established by the curriculum and AOTA guidelines, and regulatory bodies.

OTA 280 Professional Transitions (0-2-1)

Corequisite: OTA 260 or OTA 261

This course provides closure to the educational program in conjunction with clinical experience. Emphasis is placed on portfolio development and presentation, program evaluation, analysis and synthesis, and final preparation for the certification examination. Upon completion, students should be able to enter the occupational therapy (OT) workforce with an understanding of themselves as OT professionals, and with supportive documentation demonstrating progress toward meeting competencies set forth by the profession and regulatory bodies.

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.

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.

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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA 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 for transfer under the CAA as a premajor 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 for transfer under the CAA as a premajor and/or elective course requirement.

PHILOSOPHY**PHI 215 Philosophical Issues (3-0-3)**

Prerequisite: ENG 111

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critique the philosophical components of an issue. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

PHI 240 Introduction to Ethics (3-0-3)

Prerequisite: ENG 111

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, students should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

PHOTOGRAPHY**PHO 222 Video Production (2-2-3)**

Prerequisites: [GRD 152](#) and [GRD168](#)

This course combines photography, light, movement, sound, music, and other elements to produce a video medium that can be informative, entertaining, and productive. Topics include video utilization, techniques and styles, pre-production scripting and planning, camera techniques, lighting, directing talent, and editing techniques. Upon completion, students should be able to create effective video productions, operate video camera equipment, and edit raw source tape to a final product.

PHYSICS**PHY 110 Conceptual Physics (3-0-3)**

Prerequisites: [DMA 010](#), [DMA 020](#), [DMA 030](#), [DMA 040](#), and [DMA 050](#); and [DRE 098](#) 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 for transfer under the CAA as a general education course in Natural Science.

PHY 110A Conceptual Physics Lab (0-2-1)

Corequisites: PHY 110

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 for transfer under the CAA as a general education course in Natural Science.

PHY 125 Health Sciences Physics (3-2-4)

Prerequisites: [DRE 096](#), [DRE 097](#), [DMA 010](#), [DMA 020](#), [DMA 030](#), [DMA 040](#), [DMA 050](#)

This course introduces fundamental physical principles as they apply to health technologies. Topics include motion, force, work, power, simple machines, and other topics as required by the students' area of study. Upon completion, students should be able to demonstrate an understanding of the fundamental principles covered as they relate to practical applications in the health sciences.

PHY 131 Physics-Mechanics (3-2-4)

Prerequisite: MAT 121 or MAT 171

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)

Prerequisite: MAT 171 and DRE 098

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 for transfer under the CAA as a general education course in Natural Science.

PHY 152 College Physics II (3-2-4)

Prerequisite: 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 for transfer under the CAA as a general education course in Natural Science.

PHY 251 General Physics I (3-3-4)

Prerequisite: MAT 271 and DRE 098

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. This course has been approved for transfer under the CAA as a general education course in Natural Science.

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

Prerequisites: 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. This course has been approved for transfer under the CAA as a general education course in Natural Science.

POLITICAL SCIENCE**POL 120 American Government (3-0-3)**

Prerequisite: DRE 098 or satisfactory test scores

This course is a study of the origins, development, structure, and functions of American 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 process. 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 for transfer under the CAA as a general education course 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: DRE 098 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

PSY 215 Positive Psychology (3-0-3)

Prerequisite: 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 for transfer under the CAA as a premajor and/or elective course requirement.

PSY 237 Social Psychology (3-0-3)

Prerequisite: 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 for transfer under the CAA as a general education course 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 for transfer under the CAA as a general education course 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 for transfer under the CAA 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 for transfer under the CAA as a general education course 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 includes concepts of injury and repair and documentation methods. Emphasis is placed on physiological effects, indications, contraindications, and skilled applications of selected therapeutic modalities. Upon completion, students should be able to safely, correctly, and effectively apply the emphasized techniques and procedures with understanding of correct documentation.

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 is designed to include the theory and practice of additional therapeutic interventions. Topics include but are not limited to electrotherapy, burn and wound care, biofeedback, and selected data collection methods. 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 182 PTA Clinical Ed I (0-0-6-2)

This course provides a short-term affiliation for planned learning experiences and practice under supervision. Emphasis is placed on basis skills including patient transfers, elementary exercise programs, and other learned skills. Upon completion, students should be able to demonstrate satisfactory performance as an introductory-level physical therapist assistant student.

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)

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)

Prerequisite: 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

Corequisites: RAD 112 and RAD 161

This course provides the basic principles of imaging. 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 basic 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)

Prerequisite: RAD 121

Corequisites: RAD 122 and RAD 171

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, RAD 131, RAD 171

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

Corequisites: RAD 211, RAD 241, and RAD 251

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 and RAD 271

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

Corequisites: RAD 245, RAD 271

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 role of the respiratory care practitioner within interprofessional teams and interacting with diverse populations. Topics include medical gas administration, basic patient assessment, infection control, and medical terminology using proper written and oral communication methods to prepare students for clinical practice. Upon completion, students should be able to demonstrate competence in respiratory therapy concepts and procedures through written and laboratory evaluations.

RCP 111 Therapeutics/Diagnostics (4-3-0-5)

Prerequisite: RCP 110

This course provides emphasis on therapeutic and diagnostic procedures. Topics include applying problem solving strategies in the patient care setting, applying ethical principles in decision making, and practicing professional responsibilities, which will prepare students for clinical practice. Upon completion, students should be able to demonstrate competence in respiratory therapy 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 respiratory care procedures in acute and non-acute care settings. Emphasis is placed on therapeutic modalities and physiological effects, monitoring mechanical ventilation, and problem-solving strategies based on evidence-based medicine protocols and clinical practice guidelines. Upon completion, students should be able to demonstrate competence in respiratory therapy 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, pathophysiology, clinical signs and symptoms, diagnoses, prognoses, complications, and management of cardiopulmonary diseases. Emphasis is placed on developing, evaluating, and modifying respiratory care plans based on evidence-based medicine protocols and clinical practice guidelines. Upon completion, students should be able to demonstrate competence in cardio-pulmonary disease 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 132 Clinical Practice I (0-0-6-2)

Corequisite: 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 143 Clinical Practice II (0-0-9-3)

Prerequisite: RCP 110

Corequisite: 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 154 Clinical Practice III (0-0-12-4)

Prerequisite: 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 application and management of mechanical ventilation, assessment underlying pathophysiology, and introduction of critical care monitoring. Upon completion, students should be able to demonstrate competence in respiratory therapy concepts and procedures through written, laboratory and/or clinical simulation 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 using evidence-based respiratory care protocols. Topics include advanced cardiac monitoring, special procedures, respiratory care protocols, and disease management. Upon completion, students should be able to assess, recommend, and independently modify respiratory care protocols through written, laboratory and/or clinical simulation evaluations.

RCP 213 Neonatal/Ped's Concepts (2-0-0-2)

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 evaluations.

RCP 215 Career Prep - Adv Level (0-3-0-1)

This course provides preparation for employment and the advanced-level practitioner credentialing exam. Emphasis is placed on review of the NBRC Advanced-Level Practitioner Exam and supervision and management. Upon completion, students should be able to successfully complete the appropriate self-assessment examinations and meet the requirements for employment.

RCP 234 RCP Clinical Practice IV (0-0-12-4)

Prerequisite: RCP 111

Corequisite: RCP 210

This course provides advanced practitioner 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 245 Clinical Practice V (0-0-15-5)

Prerequisite: RCP 210

Corequisite: RCP 211

This course provides advanced practitioner 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.

RELIGION**REL 111 Eastern Religions (3-0-3)**

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

REL 112 Western Religions (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

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 137 Codependency 3-0-3

This course introduces the adult child concept and co-dependency as syndromes of the addictive process. Emphasis is placed on treatment and recovery within the context of a paradigm shift which allows the individual to choose a healthy model of life. Upon completion, students should be able to assess levels of co-dependency and associated levels of physical and mental health and develop strategies to enhance health.

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. Students will survey and practice various group techniques/therapy utilized in current substance abuse treatment programs. This course includes six hours of specific training in clinical supervision.

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. This course includes six contact hours in HIV, AIDS, STDS, TB, and Bloodborne Pathogens.

SAB 250 Prevention & Education (2-0-0-2)

Prerequisite: SAB 110 or SAB 140

This course uses various approaches to designing and implementing education programs concerning substance abuse, intervention, and relapse prevention for adolescents and adults. Emphasis is placed on the education of individuals and substance abusers/users and their families. Upon completion, students should be able to present a wide variety of education programs for individuals and substance abusers/users and their families.

INFORMATION SYSTEMS SECURITY**SEC 110 Security Concepts (2-2-3)**

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.

SOCIOLOGY**SOC 210 Introduction to Sociology (3-0-3)**

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

SOC 213 Sociology of the Family (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course in Social/Behavioral Sciences.

SOC 220 Social Problems (3-0-3)

Prerequisite: DRE 098 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 for transfer under the CAA as a general education course 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)

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)

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

Corequisite: 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: DRE 098 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 for transfer under the CAA as a general education course 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 for transfer under the CAA as a general education course 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: DRE 098 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 for transfer under the CAA as a premajor and/or elective course requirement.

SPA 182 Spanish Lab II (0-2-1)

Prerequisite: SPA 111

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 for transfer under the CAA 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 for transfer under the CAA as a general education course 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 for transfer under the CAA as a general education course in Humanities/Fine Arts.

SPA 221 Spanish Conversation (3-0-3)

Prerequisite: SPA 212

This course provides an opportunity for intensive communication in spoken Spanish. Emphasis is placed on vocabulary acquisition and interactive communication through the discussion of media materials and authentic texts. Upon completion, students should be able to discuss selected topics, express ideas and opinions clearly, and engage in formal and informal conversations. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

SURVEYING**SRV 110 Surveying I (2-6-4)**

Prerequisites: CEG 115

Corequisite: MAT 171

This course introduces the theory and practice of plane surveying. Topics include the precise measurement of distances, angles, and elevations; bearing, azimuth and traverse computations; topography and mapping. Upon completion, students should be able to use/care for surveying equipment, collect field survey data, perform traverse computations and create a contour map.

SRV 111 Surveying II (2-6-4)

Prerequisites: 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 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.

SOCIAL WORK**SWK 110 Introduction to Social Work (3-0-3)**

This course examines the historical development, values, orientation, and professional standards of social work and focuses on the terminology and broader systems of social welfare. Emphasis is placed on the various fields of practice including those agencies whose primary function is financial assistance, corrections, mental health, and protective services. Upon completion, students should be able to demonstrate an understanding of the knowledge, values, and skills of the social work professional.

TELECOMMUNICATION NETWORKING**TNE 111 Campus Networks I (2-3-3)**

This course is designed to introduce the fundamentals of data/computer networks. Topics include an overview of data communication standards, protocols, equipment, and how they are integrating into network topologies and systems. Upon completion, students should be able to demonstrate an understanding of telecommunication and networking.

TNE 121 Campus Networks II (2-3-3)

This course covers the operating systems and topologies associated with networking. Topics include the various operating systems used in networking and the topologies explained on a network to network level. Upon completion, students should be able to use and explain operating systems and topologies.

TRANSPORTATION TECHNOLOGY**TRN 110 Introduction to Automotive (1-2-2)**

This course covers workplace safety, hazardous materials, environmental regulations, hand tools, service information, basic concepts, vehicle systems, and common transportation industry terminology. Topics include familiarization with major vehicle systems, proper use of various hand and power tools, material safety data sheets, and personal protective equipment. Upon completion, students should be able to demonstrate appropriate safety procedures, identify and use basic shop tools, and describe government regulations regarding transportation repair facilities.

TRN 120 Basic Transportation Electricity (4-3-5)

This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns.

TRN 120A Basic Transportation Electrical Lab (0-3-1)

Corequisite: TRN 120

This course provides a lab that allows students to enhance their understanding of electrical components and circuits used in the transportation industry. Topics include inspection, diagnosis, and repair of electrical components and circuits using appropriate service information for specific transportation systems. Upon completion, students should be able to diagnose and service electrical components and circuits used in transportation systems.

TRN 130 Introduction to Sustainable Transportation (2-2-3)

This course provides an overview of alternative fuels and alternative fuel vehicles. Topics include composition and use of alternative fuels including compressed natural gas, biodiesel, ethanol, hydrogen, and synthetic fuels, hybrid/electric, and vehicles using alternative fuels. Upon completion, students should be able to identify alternative fuel vehicles, explain how each alternative fuel delivery system operates, and perform minor repairs.

TRN 140 Transportation Climate Control (1-2-2)

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis and 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 diagnose and repair vehicle climate control systems.

TRN 140A Transportation Climate Control Lab (1-2-2)

Corequisite: TRN 140

This course provides experiences for enhancing student skills in the diagnosis and repair of transportation climate control systems. Emphasis is placed on reclaiming, recovery, recharging, leak detection, climate control components, diagnosis, air conditioning equipment, tools and safety. Upon completion, students should be able to describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information.

TRN 145 Advanced Transportation Electronics (2-3-3)

Prerequisite: TRN 120

This course covers advanced transportation electronic systems including programmable logic controllers, on-board data networks, telematics, high voltage systems, navigation, collision avoidance systems and electronic accessories. Topics include interpretation of wiring schematics, reprogramming PLC's, diagnosing and testing data networks and other electronic concerns. Upon completion, students should be able to reprogram PLC's, diagnose and test data networks and other electronic concerns, and work safely with high voltage systems.

WORK-BASED LEARNING

Work-based learning courses are available for students in certain programs only. See the program advisor for additional details.

WBL 111 Work-Based Learning I (0-10-1)

This course provides a work-based learning 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.

WBL 112 Work-Based Learning I (0-20-2)

This course provides a work-based learning 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.

WBL 114 Work-Based Learning I (0-40-4)

This course provides a work-based learning 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.

WBL 115 Work-Based Learning Seminar I (1-0-1)

Corequisite: Take One: WBL 111, WBL 112, WBL 113 or WBL 114

WBL 121 Work-Based Learning II (0-10-1)

This course provides a work-based learning 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.

WBL 125 Work-Based Learning Seminar II (1-0-1)

Corequisite: Take One: WBL 121, WBL 122, WBL 123 or WBL 124

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 (2-2-3)

Prerequisite: [CIS 115](#)

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 210 Web Design (2-2-3)

Prerequisite: [WEB 110](#)

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 213 Internet Mkt. & Analytics (2-2-3)

This course introduces students to Search Engine Optimization (SEO), Search Engine Marketing (SEM) and web analytics. Topics include Search Engine Optimization (SEO), Pay Per Click advertising (PPC), Search Engine Marketing (SEM), web analytics, eye-tracking software and email marketing. Upon completion, students should be able to set up, monitor and maintain SEO optimized websites; and develop strategies for online marketing and advertising plans.

WEB 225 Content Management Systems (2-2-3)

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 251 Mobile Application Development II (2-2-3)

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.

WELDING**WLD 110 Cutting Processes (1-3-2)**

Corequisite: [WLD 111](#)

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)

Corequisite: WLD 110

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)

Prerequisites: 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

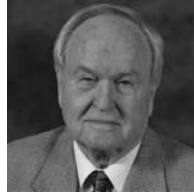
This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

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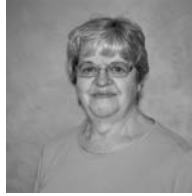
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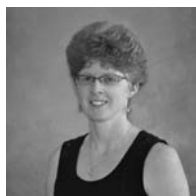
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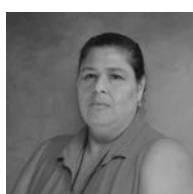
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