



# belong

2019-2020



# Sandhills

COMMUNITY COLLEGE

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# General Catalog

## 2019-2020



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**SANDHILLS COMMUNITY COLLEGE**

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## WELCOME TO SANDHILLS COMMUNITY COLLEGE

### College Telephone Numbers

Administrative offices are open Monday through Friday from 8 a.m. until 5 p.m. During the summer sessions, some offices may have an abbreviated schedule. The summer schedule, the academic calendar, and a telephone directory of faculty and staff are available online at [www.sandhills.edu](http://www.sandhills.edu).

General Information .....	910-692-6185/800-338-3944
Admissions.....	695-3725/3738
Business .....	695-3721/3951
Continuing Education.....	695-3980
Financial Aid.....	695-3743
Dean of Instruction.....	695-3708
Library .....	695-3819
Records and Registration .....	695-3740/3741/3734/3739
Dean of Student Services .....	695-3714
Director of Student Life .....	695-3858
Vice President of Student Services .....	695-3900

### Accreditation

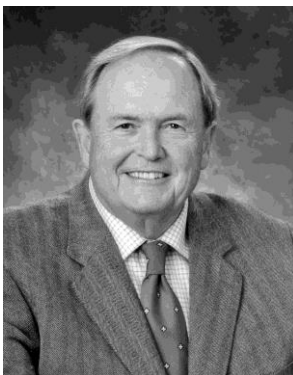
Sandhills Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees, diplomas, and certificates. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Sandhills Community College.

### Visitors

Sandhills Community College welcomes visitors to campus and encourages them to explore the gardens, to use the Katharine Boyd Library, and to attend various public college functions. The Campus Map on page 4 provides directions. It is important that visitors respect the educational mission of the College and the necessity for campus safety and tranquility. If disruptive visitors are observed, those noting the behavior are asked to relay that information to the switchboard located in the Dempsey Student Center 910-692-6185 or 800-338-3944. The College reserves the right to ask disruptive visitors to leave the campus.

### Non-Discrimination Statement

Sandhills Community College does not and shall not discriminate in its educational programs, activities, and employment practices on the basis of race, color, national or ethnic origin, ancestry, age, religion or religious creed, disability or handicap, sex or gender, gender identity and/or expression (including a transgender identity), sexual orientation, military or veteran status, genetic information, or any other characteristic protected under applicable federal, state or local law, regulations and orders, including those that promote equal protection and equal opportunity for students, employees, and applicants. More detailed policies and procedures on this topic may be found in the [Policies and Procedures Handbook](#) accessible on our website.



### **President John R. Dempsey**

Welcome to Sandhills Community College. I am thrilled that you have chosen to call Sandhills home for the next two years. Since the college's founding in 1963, Sandhills has been providing high quality education to the people of our community. A lot has changed in the fifty-plus years we've been around, but the core values that started the college are still operative today. Those values are INTEGRITY, HELPFULNESS, EXCELLENCE, RESPECT, and OPPORTUNITY. They guide and inspire the work we do at Sandhills, and we hope they will have a profound influence on your education.

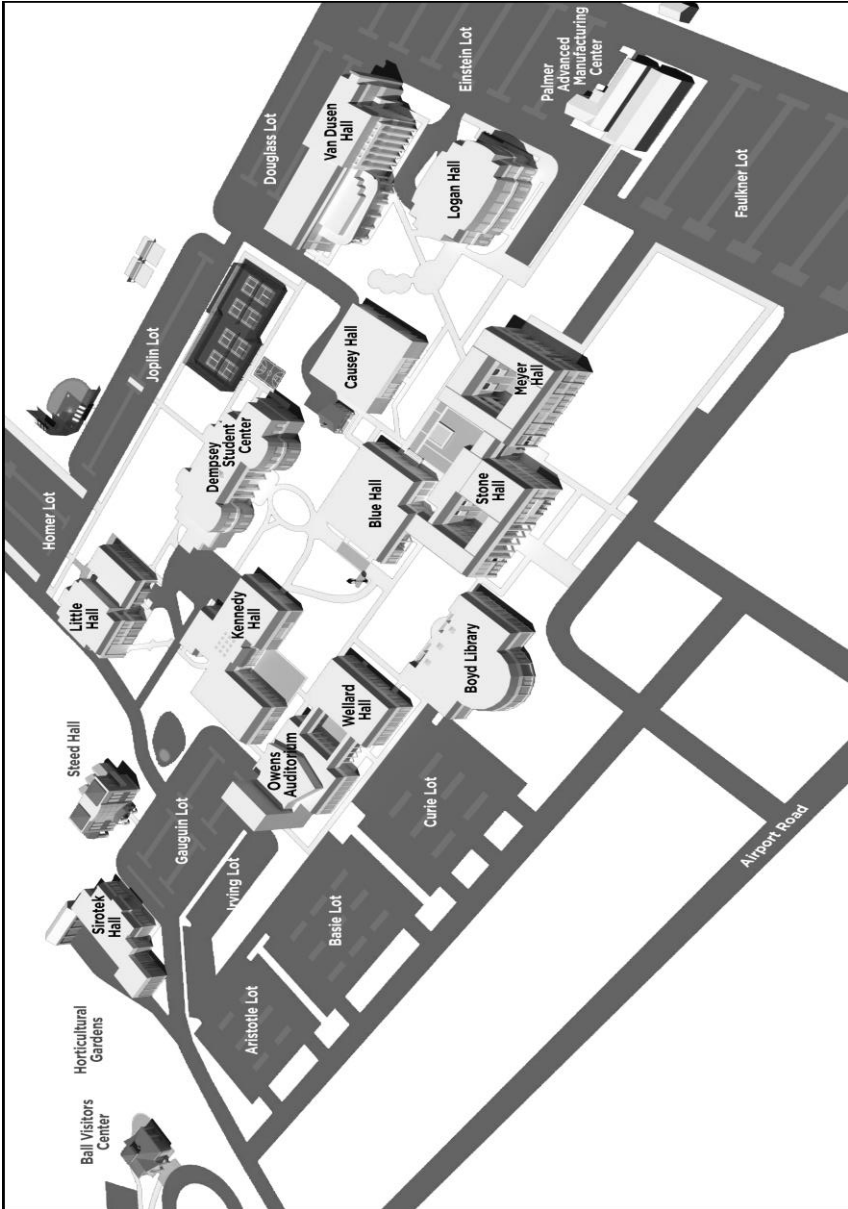
This college catalog has lots of information to help you on your educational journey. We think it will answer most of the questions you will have about the college — and about your program of study. If this book does not answer your questions, or if anything isn't clear, please call your advisor, the nice folks in Student Services, Executive Assistant Heather Lyons (910-695-3701), or me (910-695-3700) for help. Helping students is why we are here.

Again, welcome to Sandhills. I think you've made a really good college choice, and I wish you all the success in the world while you are here. For over fifty years now, we've been taking good care of students and helping them get the education they need to lead productive and fulfilling lives. We hope to do that with you, and we thank you for choosing Sandhills.

A handwritten signature in black ink, which appears to read "John R. Dempsey". The signature is fluid and stylized, with a long, sweeping line extending from the end.

John R. Dempsey

# CAMPUS MAP



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 CAMPUS MAP
 

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**Ball Garden Visitor's Center****Blue Hall**

- Career Services
- BLET Classroom
- Health & Fitness Program Classroom
- McCaskill Public Service Center
- Office of Planning and Research
- Student Employment

**Boyd Library**

- Archives
- Barbara Cole Children's Literature Center
- Jeanne Hastings Gallery
- Learning Resource Computer Lab
- Library
- The Luke Joseph Ryan Veteran's Center
- Teresa Wood Reading Room

**Causey Hall**

- Alumni Relations
- Cosmetology
- Emergency Medical Science
- Grant Development
- SCC Foundation Office

**Dempsey Student Center**

- Athletics
- Center for Teaching and Learning
- Clement Dining Room
- Ewing Center for Student Leadership
- Heins Gymnasium
- Intramurals
- Logan Bookstore
- Lost and Found
- Marketing
- Parking Permits
- Peterson Dining Commons
- Photo ID
- Reception
- Russell Fitness Center
- Student Government Association
- Student Life

**Kennedy Hall**

- Bracken Auditorium
- College Programs for High School Students
- Fine Arts – Art
- Health Sciences
- Nursing
- Owens Wing
- SandHoke ECHS Office
- St. Andrews Extension
- UNC Pembroke Social Work

**Little Hall**

- Byerley Auditorium
- Computer Technologies
- eLearning
- Engineering Technologies
- Golf Course/Turfgrass Management
- Whole Harvest Kitchen
- Peggy Kirk Bell Center for Hospitality and the Culinary Arts
- Russell Dining Room
- Charles and Jane Wellard Technology Center

**Logan Hall**

- Disability Services
- English and Humanities
- Kelly Tutoring Center
- Mathematics
- Open Speaking Lab
- Open Writing Lab
- UNC Pembroke Extension

**McKean Campus Services Center**

- Grounds Maintenance
- Physical Plant Maintenance
- Print Shop
- Shipping/Receiving

**Meyer Hall**

- Directors Auditorium
- Management & Business Tech Lab
- Sciences
- Therapeutic Massage

**Owens Auditorium****Palmer Advanced Manufacturing Center**

- Electrical
- Industrial Maintenance
- Welding

**Sirotek Hall**

- Transportation Technologies

**Steed Hall**

- Landscape Gardening

**Stone Hall – 1st Floor East**

- Administration, Business Office, Human Resources
- John Sledge Board Room

**Stone Hall – 1st Floor West**

- Meyer Family Foundation Auditorium
- Admissions, Financial Aid, Placement Testing, Records and Registration

**Stone Hall – 2nd Floor West**

- Counseling Services
- Placement Testing & Lab
- Student Success Center

**Stone Hall – 2nd Floor East**

- Information Services
- Management & Business Technologies
- University Studies

**Van Dusen Hall 1st Floor**

- Continuing Education, Dedman Center for Business Leadership, Frick Innovation and Technology Center, Furches Life-Long Learning Center

**Van Dusen Hall 2nd Floor**

- Social and Behavioral Sciences, Public Services

**Wellard Hall**

- Audiovisual Services
- Campus Police and Public Safety
- Fine Arts – Music and Music Education
- Minority Male Mentoring Center

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## ACADEMIC CALENDARS

### 2019-2020 Academic Calendar

#### Fall Semester 2019

August 15	Thursday	Registration
August 16	Friday	Last Day 100% Refund
August 19	Monday	First Day of Classes
August 20	Tuesday	Add Period Ends
August 28	Wednesday	Last Day 75% Refund
September 2-3	Monday–Tuesday	Labor Day Holiday
October 14-15	Monday-Tuesday	Fall Break
October 31	Thursday	Drop Period Ends
November 4	Monday	Spring Semester Priority Registration
November 11	Monday	Veterans Day Holiday
November 27-29	Wednesday-Friday	Thanksgiving Holiday
December 12-17	Thursday-Tuesday	Final Exam Period
December 17	Tuesday	Semester Ends

#### Spring Semester 2020

January 9	Thursday	Registration
January 10	Friday	Last Day 100% Refund
January 13	Monday	First Day of Classes
January 14	Tuesday	Add Period Ends
January 20	Monday	Dr. Martin Luther King Holiday
January 23	Thursday	Last Day 75% Refund
March 9-13	Monday–Friday	Spring Break
March 31	Tuesday	Drop Period Ends
April 1	Wednesday	Summer and Fall Priority Registration
April 13-14	Monday-Tuesday	Easter Holiday
May 7-12	Thursday-Tuesday	Final Exam Period
May 12	Tuesday	Semester Ends
May 16	Saturday	Commencement

#### Summer Semester 2020

May 25	Monday	Memorial Day Holiday
May 26	Tuesday	Registration Summer & Fall
June 29	Monday	Registration C Summer & Fall
July 3	Friday	Independence Day Holiday

	<b>Classes Begin</b>	<b>Classes End</b>	<b>Last Day To Add</b>	<b>Last Day To Drop</b>	<b>Last Day 100% Refund</b>	<b>Last Day 75% Refund</b>
<b>Sessions</b>						
Full Session (A)	May 27	July 30	May 28	July 8	May 26	June 2
1st Half (B)	May 27	June 25	May 27	June 15	May 26	May 28
2nd Half (C)	June 30	July 30	June 30	July 20	June 29	July 1

## 2020-2021 Proposed Academic Calendar

(Subject to change; not official until approved in Spring 2020)

### Fall Semester 2020

August 13	Thursday	Registration
August 14	Friday	Last Day 100% Refund
August 17	Monday	First Day of Classes
August 18	Tuesday	Add Period Ends
August 26	Wednesday	Last Day 75% Refund
September 7-8	Monday–Tuesday	Labor Day Holiday
October 12-13	Monday-Tuesday	Fall Break
October 29	Thursday	Drop Period Ends
November	To Be Announced	Spring Semester Priority Registration
November 11	Wednesday	Veterans Day Holiday
November 25-27	Wednesday-Friday	Thanksgiving Holiday
December 10-15	Thursday-Tuesday	Final Exam Period
December 15	Tuesday	Semester Ends

### Spring Semester 2021

January 7	Thursday	Registration
January 8	Friday	Last Day 100% Refund
January 11	Monday	First Day of Classes
January 12	Tuesday	Add Period Ends
January 18	Monday	Dr. Martin Luther King Holiday
January 21	Thursday	Last Day 75% Refund
March 8-12	Monday–Friday	Spring Break
March 30	Tuesday	Drop Period Ends
April	To Be Announced	Summer and Fall Priority Registration
April 5-6	Monday-Tuesday	Easter Holiday
May 6-11	Thursday-Tuesday	Final Exam Period
May 11	Tuesday	Semester Ends
May 15	Saturday	Commencement

### Summer Semester 2021

May 31	Monday	Memorial Day Holiday
May 24	Monday	Registration Summer & Fall
June 28	Monday	Registration C Summer & Fall
July 5	Monday	Independence Day Holiday

	Classes	Classes	Last Day	Last Day	Last Day	Last Day
Sessions	Begin	End	To Add	To Drop	100% Refund	75% Refund
Full Session (A)	May 25	July 29	May 26	July 7	May 24	June 1
1st Half (B)	May 25	June 24	May 25	June 14	May 24	May 26
2nd Half (C)	June 29	July 29	June 29	July 19	June 28	June 30

## COLLEGE MISSION AND PROGRAMS

### College History

Sandhills Community College was established in December 1963 under authority of the 1963 State Community College Act. Following the leadership of Representative H. Clifton Blue, Moore County citizens petitioned the State Board of Education for approval to establish a community college in the county and voted overwhelmingly for a one million dollar bond issue for construction and a tax levy for operation and maintenance of facilities. Before the end of 1963, a board of trustees had been named, an organizational meeting held, an architect selected, and Dr. Raymond Stone chosen as first President of the College.

In 1964, construction of facilities began on land given for the campus by Mrs. Mary Luman Meyer of Pinehurst. Temporary college offices were located in downtown Southern Pines. Classes began on October 1, 1965, in nine scattered locations.

Following Dr. Stone's retirement in 1989, Dr. John R. Dempsey was selected to serve as President of the College.

The College's main campus in Moore County has expanded significantly since the 1960s. Little Hall, a facility for culinary technology and the engineering and computer programs, and Dempsey Student Center opened in 2006. In addition, Steed Hall, home of the Landscape Gardening program, opened in 2010 to replace its former home, Huette Hall. Logan Hall, a 36,000 square-foot general purpose office and classroom building, opened in 2012. Blue Hall, one of the earlier structures on campus, underwent a major renovation in 2012 and is now the home to Counseling Services, Institutional Effectiveness, Basic Law Enforcement Training, and Health and Fitness Technology classes. The 2012 opening of a new maintenance building allowed the old maintenance facility to become the focal point of Continuing Education advanced manufacturing programs.

The College's presence and capabilities are also growing at the Hoke County Center in Raeford, where a third classroom building opened in fall 2010 to house the SandHoke Early College High School, adding to Johnson and Upchurch Halls, in which Continuing Education and Curriculum classes are provided to Hoke County citizens. Mobile classroom cottages were added in spring 2013 to house an expansion of the SandHoke Early College High School.

Sandhills has been fortunate in attracting a highly competent faculty and staff. Experienced faculty members bring to the classroom a spirit of dedication to teaching and a willingness to advise students in course selection and academic

planning. Professional counselors provide assistance with admissions, counseling, financial aid, and student life.

## Mission Statement

The Mission of Sandhills Community College is to provide educational opportunities of the highest quality to all the people of the Sandhills.

### What We Believe...

The college is committed to the five core values of INTEGRITY, HELPFULNESS, EXCELLENCE, RESPECT, and OPPORTUNITY. These values guide and direct Sandhills Community College as it seeks:

- To welcome students of all ability levels and to provide programs that prepare them for employment or for transfer (EXCELLENCE);
- To develop student and academic support services that promote student success (HELPFULNESS);
- To provide training for local businesses and to enhance the economic well-being of the region (OPPORTUNITY);
- To contribute to the cultural and artistic richness of the community and to the educational needs of our retired population (INTEGRITY);
- To create a campus environment that celebrates its faculty and staff and supports their personal and professional development (RESPECT).

### College Goals

1. **For-Credit Academic Programs**  
To educate students for professional and personal opportunities by providing technical and transfer programs.
2. **Support Services**  
To provide beneficial student services and academic support programs that help students live better lives through meeting their career, academic, and personal goals.
3. **Access and Opportunity**  
To ensure access and opportunity by minimizing barriers to employment and/or to college credit and non credit courses.
4. **Economic Development**  
To provide the necessary training to help recruit businesses and to drive entrepreneurial growth in our service area, to promote workplace learning, and to prepare students for employment through credit and non credit courses and programs.
5. **Campus and Community Life**  
To provide opportunities for cultural enrichment, life-long learning, student involvement, and community service.
6. **Campus Resources**

To ensure that the college has the necessary financial, human, technological, and physical resources to advance the excellence of its programs.

Sandhills Community College is a comprehensive community college chartered in 1963 and is a member of the North Carolina Community College System. The Sandhills Community College mission statement and supporting goals were revised and approved by the Board of Trustees in October 2011.

## **Core Values at Sandhills Community College**

### **Integrity**

Sandhills treats its students, faculty, and staff fairly and stands behind the commitments that are stated or implied in its policy documents and promotional materials. The College demands academic work that is honest and rigorous and that meets the expectations of employers and baccalaureate-level institutions.

### **Helpfulness**

The faculty and staff of Sandhills are genuinely and eagerly helpful to the College's students and to each other. Going the extra mile is expected behavior at Sandhills.

### **Excellence**

Sandhills provides educational programs of the highest quality and then provides the support necessary to promote student success. Similarly, the College employs faculty and staff who are exceptionally well-qualified to promote educational excellence and, in addition, encourages and supports them in the performance of their jobs.

### **Respect**

The atmosphere of Sandhills Community College is one of respect, friendliness, and civility — values that are taught to students by the way in which faculty and staff interact with them and with each other.

### **Opportunity**

Opportunity is at the core of Sandhills' mission. The College provides educational opportunities to the students who enter through its open doors, opportunities for growth to the area's businesses and lifelong learners, and opportunities for professional and personal development to its faculty and staff.

## **Performance Measures and Standards, 2018-2019**

**North Carolina Community College System**



The most recent data are from the North Carolina Community College System from July 2018.

**Student Success Rate in College-Level English Courses**

- Percentage of first-time Associate Degree-seeking and transfer pathway students passing a credit-bearing English course with a “C” or better within their first two academic years.
- Data Source: CRPFAR student record report
- System Mean: 53.0%      SCC Performance: 56.5%

**Student Success Rate in College-Level Math Courses**

- Percentage of first-time Associate Degree-seeking and transfer pathway students passing a credit-bearing mat course with a “C” or better within their first two academic years.
- Data Source: CRPFAR student record report
- System Mean: 32.5%      SCC Performance: 29.6%

**First Year Progression**

- Percentage of first-time fall credential-seeking students attempting at least twelve hours within their first academic year who successfully complete (“C” or better) at least twelve of those hours.
- Data Source: CRPFAR student record report
- System Mean: 70.9%      SCC Performance: 66.7 %

**Licensure and Certification Passing Rate**

- Aggregate institutional passing rate of first time test-takers on licensure and certification exams. Exams included in this measure are state mandated exams for which candidates must pass before becoming active practitioners.
- Data Source: Licensing agencies
- System Mean: 79.8%      SCC Performance: 85.6%

**College Transfer Performance**

- Percent of overall GPA of 2.0+ after two consecutive semesters within an academic year at NC four-year institution.
- Data Source: UNC-General Administration
- System Mean: 83.7%      SCC Performance: 83.2%

**Curriculum Completion**

- Percentage of first-time fall credential-seeking students who graduate, transfer, or are still enrolled with 36 hours after six years.
- Data Source: CRPFAR student record report and National Student Clearinghouse
- System Mean: 43.4%      SCC Performance: 42.2%

**Basic Skills Students Progress**

- Percentage of students who progress as defined by an educational functioning level.
- Data Source: LEIS
- System Mean: 60.1%      SCC Performance: 54.8%

## **Campus Services**

### **Bookstore**

Students can purchase textbooks, school supplies, sportswear, and other accessories at the college bookstore located in the Dempsey Student Center. The bookstore is owned and operated by Barnes and Noble. Students may also locate course textbook selection and ISBN information online at [sandhills.bncollege.com](http://sandhills.bncollege.com). Bookstore hours of operation are posted online at [sandhills.bncollege.com](http://sandhills.bncollege.com) and posted in the Dempsey Center. During the add/drop period, the bookstore will keep hours comparable to those of day and evening registration.

### **Cafeteria**

The Sandhills cafeteria, located in the Dempsey Student Center, offers a quality assortment of reasonably priced breakfast and lunch items for students, employees, and visitors. Food sales are supplemented by vending machine selections. For special college events, the cafeteria provides professional catering services.

### **Disability Services**

The College strives to provide an equal educational opportunity to all applicants and encourages students with disabilities to enroll. The College makes every effort to comply with the Americans with Disabilities Act, and reasonable accommodations will be made for all who demonstrate a documented legitimate need. The campus is largely barrier-free and accessible. Faculty and staff are available to assist where feasible. Students in need of special assistance should contact the Office of Disability Services in Logan Hall at their earliest convenience to obtain an information packet, which outlines the process for getting the required documentation. The “Compliance” section of this *Catalog* provides more information.

### **SCC Website**

Interested parties may visit the Sandhills Community College website at [www.sandhills.edu](http://www.sandhills.edu) for a wide range of information about the college and its

services. In addition to information regarding SACSCOC and specific programs subject to accreditation, visitors to the website will find class schedules, admissions and registration information for both college credit and continuing education classes, and information pages for academic and extension departments and programs. Sandhills.edu also provides links to information about student resources and library services. A calendar of upcoming events and news articles related to the college are also accessible from the site.

The MySCC page is designed specifically to be the information portal for students and acts as the central location for valuable resources. To support that role it contains the links for students to log into their online courses, email and WebAdvisor. In addition, students can access other material that will allow them to plan and be successful in their academic courses. Current students should access this page often for time-sensitive college announcements.

### **Student Printing**

As part of student technology fees, students are allotted \$10 toward printing on campus each semester. To print using a campus printer, students will enter their username and password and select the account they will use for the print job. If the student exhausts their allotment of copies, he/she will have the option of adding money to their account either using a credit card online or through cash kiosks located in various locations on campus. Black and white copies are \$0.05 each and color copies are \$0.15 each.

Technology fee funds expire at the end of each semester. There will be no refund/carryover of unused technology fee funds. Money added by the student to their printing account will carryover from semester to semester as long as a break in enrollment does not exceed two years.

## **Instructional Programs and Delivery**

College credit and career credit classes and programs are offered for citizens with varied educational needs and backgrounds using traditional (classroom) settings and non-traditional (ITV, hybrid and eLearning) instructional methods. Courses are taught day and evening throughout the year on and off the main campus.

## **Credit Programs**

### **University Studies Program**

Courses that lead to the Associate in Arts, Associate in Engineering, Associate in Fine Arts, and Associate in Science degrees are offered at the freshmen and

sophomore levels. Credits earned in college transfer courses may be transferred to senior colleges and universities where students may pursue a program of study leading to a baccalaureate degree. Advisors assist students in selecting courses that will be appropriate for baccalaureate degree programs at senior institutions.

### **Applied Science Programs**

Two-year programs are offered leading to the Associate in Applied Science degree. These programs are comprised of specialized and related courses required for successful employment in business, industry, health, horticulture, and service occupations.

### **Diploma Programs**

One-year diploma programs are offered, leading to employment in health, business, industry, and service occupations. These programs include occupational specialty and related courses selected to give students the knowledge and skills needed for successful employment.

### **Certificate Options**

Several of the occupational education programs have a certificate option that includes specialized courses but omits related and general education courses. Students who complete these programs are awarded a program certificate. Students not seeking a college degree, diploma, or certificate may enroll in selected occupational courses as long as the specific course prerequisites are met.

### **General Education Program**

The College offers a non-transferable general education degree for students who want a more flexible two-year college degree. General education students are assisted in the selection of courses that will meet their own special needs and are awarded the Associate in General Education degree upon completion of the program requirements.

### **Special Credit Courses**

The College encourages the enrollment of students who are not seeking a degree but wish to further their education by taking courses of special interest. Courses may be audited or taken for college credit. Students will qualify for special credit status only during the first 16 credit hours of course work. To enroll in additional course work, students must reapply to the college, declare a major, and meet enrollment requirements.

## **Workforce Continuing Education (WCE) Career Credit**

Workforce Continuing Education (WCE) training programs are designed to provide instructional opportunities for individuals to gain new and/or upgrade current job-related skills. Training programs are delivered as a single course or bundled as a series of courses and are designed to provide instruction around skill competencies leading to a recognized credential (licensure, renewal, registry listing) and/or meeting local workforce labor needs.

WCE courses are offered on and off campus to meet the expressed needs of adults wishing to continue their education. The Continuing Education division awards Continuing Education Units (CEUs) for appropriate programs and courses.

### **Personal Enrichment**

Personal Enrichment classes at Sandhills Community College are designed to enhance the intellectual, physical, and personal well-being of the Sandhills community. It seeks to create new and innovative programs, to promote access to services and community resources and to participate and collaborate with various community organizations and agencies.

### **Instructional Delivery**

In addition to offering traditional classroom instruction, the College also offers classes in non-traditional formats and at non-traditional times.

The College currently requires no additional fees related to verification of student identification in online courses. The student's identification is verified through the LDAP Authentication system. Students enrolled in online and hybrid classes establish their identification in this system when they activate usernames and passwords at the start of their SCC experience. Additional information related to online student support and procedures is found in the *Online Education at SCC* guide that is available on the MySCC page of the Sandhills website at [MySCC.sandhills.edu](http://MySCC.sandhills.edu).

### **Hybrid Courses**

Hybrid courses combine Internet and traditional classroom instruction. A designated portion of the class is delivered in a traditional classroom format, and the remaining portion is delivered in the online environment. The predetermined portions will vary according to the needs of the particular class and program. Hybrid courses are advertised in the class schedules and are designated with an H in the section number. The hours offered through the online format are listed on the course syllabi. Students enrolled in these classes

must follow the regular admissions and registration process, pay regular tuition and fees, and meet all course prerequisites.

### **Online Courses**

eLearning courses are delivered via the Internet using a learning management system (Open LMS). Most online courses are asynchronous, meaning that students are not required to be online at a specific time to take part in course activities and most of the communication among students and instructors does not take place in real time. Although there are no specific access times, all online courses have a specific schedule of assignments with due dates. To establish enrollment, students must log into the course and submit the orientation assignment by the deadline designated by the instructor. Students are required to log into the course several times a week for the duration of the semester, and they must also meet course deadlines specified by the instructor, as would be the case in a traditional campus course. Online courses are identified in the class schedules by an N in the section number. Students enrolled in these classes must follow the regular admissions and registration process, pay regular tuition and fees, and meet all course prerequisites. As noted earlier, information related to online student support and procedures is found in the *Online Education at SCC* guide available on the MySCC page of the website at MySCC.sandhills.edu.

### **Interactive Television System Courses**

Interactive Television System, or ITV, is an instructional delivery format that allows an interactive environment where the instructor provides instruction to students at the Pinehurst campus and the Hoke Center simultaneously by transmitting video and audio via a special television system. Sandhills may also transmit courses to campuses of other community colleges. The instructor can see and communicate live with students in both locations, and students in both locations can interact in real time as well. ITV courses are designated with a V in the section number. Students enrolled in these classes must follow the regular admissions and registration process, pay regular tuition and fees, and meet all course prerequisites.

## **COLLEGE ADMISSION AND REGISTRATION**

### **Admission to the General College**

Sandhills Community College maintains an open-door admission policy for high school graduates and others 16 or older who hold a high school equivalency or an adult high school diploma. Additionally, those who are at least 18 years of age but who do not have a high school diploma or equivalency may be accepted for admissions to an adult basic education or adult secondary education program; students may also enroll in continuing education classes or as a special, non-degree-seeking student. Admission to the College does not guarantee placement into a specific program of study.

Sandhills Community College reserves the right to deny admission or readmission to students whose presence on campus is construed by the administration as harmful or potentially harmful to Sandhills Community College students, faculty, and/or staff. Students admitted to the College must adhere to the Student Code of Conduct, which prohibits conduct that significantly impairs the welfare or the educational opportunities of others in the college community.

Exceptions to the admissions policy, including the U.S. Department of Education Ability to Benefit provision, may be determined after a conference with the Dean of Student Services.

### **Admission to Continuing Education**

Detailed information regarding enrollment into Continuing Education programs and courses is available in the “Continuing Education” section of this *Catalog*.

### **Admission to Curriculum Education**

#### **Non-Degree-Seeking Student (Special and Visiting Students)**

Admission as a Special or Visiting Student requires the following:

- Submit a completed official admissions application form.
- Submit documentation supporting that any applicable course prerequisites have been met.

Special students may register for courses if course prerequisites are met and if space exists in the class. Further admission information concerning special and visiting students is available below in the “Student Classifications – Guidelines for Admission” section.

## **Degree-Seeking Student**

Admission to associate's degree, diploma, and certain certificate programs requires the following:

- Submit a completed official admissions application form.
- Submit an official high school transcript indicating graduation with a diploma, a high school equivalency certificate (HSE), or an adult high school diploma.
- Submit official college transcripts from all previously attended institutions.
- If deemed necessary, complete placement requirement (details available in the "Placement Determination, Testing and Test Exemptions" section below).
- Attend a required orientation session.

It is the responsibility of the student to make certain the required documents are sent; however, the Student Services Division will provide guidance with admissions and placement.

Further admission information concerning specific student populations is available in the "Student Classifications – Guidelines for Admission" section.

## **Placement Determination, Testing and Test Exemptions**

Placement determination is required for students who plan to enter an instructional program; special students who enroll in English, mathematics, or other restricted courses; and high school students taking college courses.

Students will be placed based on the highest of the following placement methods:

- Unweighted GPA reflected on a United States high school transcript with a graduation date within 10 years of the start term at SCC;
- Qualifying minimum score on high school equivalency exam taken within 10 years of the start term at SCC;
- ACUPLACER, ASSET or COMPASS scores, or qualifying SAT or ACT scores completed within the last 10 years;
- College credits in English and mathematics awarded as transfer credit.
- Associate degree or bachelor's degree

Students who graduated high school more than ten years from the start term at SCC, or who graduated from an international high school, and do not meet



any of the other criteria stated above, must take a placement test to determine placement and to assess academic abilities in the area of reading, writing, and mathematics.

Placement testing is conducted through the Testing Lab in Stone Hall 219. Students requiring placement testing will be issued a testing ticket upon meeting with an Admissions Associate.

Students who do not achieve college-level test scores will be advised to enroll in foundation courses to prepare them for future program placement. **Please note:** In some instances, students may challenge a course by passing a departmental exam and earning Credit by Exam (CE). Such requests must be made through the appropriate department chair.

For further details, contact the Admissions Office at (910) 695-3725.

## Program Placement

Students who desire to enter a specific instructional program and who meet the testing and placement criteria will be placed in the program of their choice as long as vacancies exist. Placement of qualified candidates into the programs will be made according to the published program admission requirements, which may include the date by which the candidates successfully meet testing and placement criteria and the date by which all required records are received by the college. Program placement requirements and special program requirements are outlined on program sheets that can be obtained online through the Programs link located on the SCC homepage.

## Orientation

New students are required to attend orientation prior to registering for classes. Orientation will allow you to learn about the college, hear from financial aid representatives, meet your instructors, and discover campus resources.

## Registration for Curriculum Classes

Registration dates for each semester are listed in the academic calendar located in the front of this Catalog and online at [www.sandhills.edu](http://www.sandhills.edu). Admission and program placement requirements must be met before students may register. Students are not officially registered for classes until tuition and fees have been paid.

## **Last Day to Register**

Academic integrity dictates that the “last day to register” (as noted in the Academic Calendar), generally, is the final opportunity for previously enrolled or new students to register for classes in any given semester.

## **Student Classifications – Guidelines for Admission**

### **New Students**

New students enrolling in curriculum classes must meet the admissions requirements outlined above.

### **Readmitted Students**

A student will maintain an active application status provided a break in enrollment does not equal or exceed 2 years. Students returning after an absence of 2 years and those students who applied but never attended must be readmitted following this procedure:

- Submit a completed official admission application form.
- Submit transcripts from all regionally accredited colleges or universities attended since applying to or attending Sandhills.
- If deemed necessary, complete placement requirement (details available in the “Placement Determination, Testing and Test Exemptions” section).
- Attend a required orientation session.
- Meet the admission and graduation requirements of the *Catalog* in effect at the time of readmission.

Students who have not attended Sandhills Community College in at least five years may be required to re-submit an official high school transcript indicating graduation with a diploma, a high school equivalency certificate (HSE), or an adult high school diploma, as well as transcripts from all regionally accredited colleges or universities previously attended. College and university transcripts will be evaluated for transfer credit by the Office of Records and Registration using criteria in effect at the time of readmission.

In addition, students changing from Special Student status to Degree Seeking must submit a new admissions application and submit any required documents to the Admissions Office to become eligible for readmission.

Students returning to Sandhills after a break of two semesters may be required to submit a new residency application. Contact admissions for questions at 910-695-3781.

## **Foreign Students**

### **Permanent Residents**

Applicants must provide current valid documentation from the Citizenship and Immigration Service (CIS) before being admitted and placed under regular admissions policies.

### **Other Visas**

Applicants must provide current valid documentation from the Citizenship and Immigration Service (USCIS) before being admitted — as allowed — and placed under regular admissions policies

### **F-1 Visas**

Applicants seeking an F-1 student visa must provide satisfactory academic records and have a sponsor. Other important factors are graduation from a secondary school that is equivalent to secondary schools in the United States. If EFL (English as Foreign Language) classes are not offered, applicants whose native language is other than English must submit TOEFL (Test of English as a Foreign Language) scores as evidence of ability to use English at a level of competence necessary for college work. (TOEFL test dates and further details may be viewed at [www.ets.org](http://www.ets.org).) A minimum score of 68 is required for the Internet-based TOEFL exam (iBT), and a minimum score of 213 on the Computer-based TOEFL exam (CBT). Exceptions to the college policy may be granted in rare instances. Foreign applicants should contact the Admissions Department at Sandhills Community College for additional information. New international students must report to the Admissions Department in Stone Hall Student Services within 24 hours upon arrival to campus.

## **Undocumented Immigrants**

According to North Carolina and federal legislation, community colleges are responsible for ensuring that a student who is lawfully present in the U.S. will always have priority for a space in a class or program of study over a student who is not lawfully present in the U.S., if there are space limitations. As such, Sandhills Community College follows these admission requirements for undocumented immigrants:

- Colleges should neither enroll undocumented students into a class or program of study for which there are waiting lists, nor should colleges register undocumented students for classes until the conclusion of the last published registration period.
- Colleges shall admit an undocumented immigrant only if he or she attended and graduated from a U.S. public high school, private high school, or home school that operates in compliance with State or

local law. Undocumented immigrants with a HSE diploma are not considered to have "graduated from a U.S. public high school, private high school, or home school" and therefore are not eligible to be admitted to a community college. An undocumented immigrant with a diploma from an Adult High School that is located in the U.S. and operates or operated in compliance with State or local law is eligible to be admitted to a community college.

- Undocumented immigrants may not be admitted into a program of study that requires a professional license since federal law prohibits states from granting professional licenses to undocumented immigrants.
- Undocumented immigrants will be charged out-of-state tuition whether or not they reside in North Carolina.

### **Foreign College Transcripts**

Foreign college transcripts must be translated into English with a comprehensive course-by-course report before the Office of Records and Registration at Sandhills will evaluate these documents for potential transfer credits. Sandhills will accept official course-by-course foreign college transcript reports from companies that are members of either the Association of International Credential Evaluators (AICE) or the National Association of Credential Evaluation Services (NACES).

Students must contact the company directly and instruct them to mail an official report directly to Sandhills. Students also must request a course-by-course evaluation. Document-by-document evaluations will not be accepted by Sandhills for transfer credit. The Office of Records and Registration, 910-695-3739, provides further information.

### **Transfer Students**

Transfer students must meet the same admission criteria as all new students. In addition to submitting all other application materials, transfer students must submit official transcripts of all post-secondary credits previously earned at other accredited institutions. Students will not be allowed to register beyond their first semester unless all required transcripts are received. These official transcripts become a part of the student's permanent record and cannot be sent to other institutions or returned to the student.

Sandhills Community College will consider granting credit for work done at other regionally accredited institutions of higher education. Courses accepted for transfer credit must parallel course offerings at Sandhills Community College as determined by the Director of Records and Registration, the Dean of Instruction, and/or the appropriate Department Chair. The *Higher*

*Education Directory* is used for verification that institutions are regionally accredited. This allows SCC to determine whether to accept transfer credits from that college. Upon review of the approved transfer credits, the Director of Records and Registration enters course information for any transferred classes into Colleague. Transfer credits are indicated by TR in the student record. The Director then files the official transcript from the accredited college in the student's permanent academic file. Courses approved to satisfy the NCCCS Comprehensive Articulation Agreement general education, pre-major or elective course requirement will also be considered for acceptance as transfer credit. Transfer credit may be allowed only for courses in which a student has earned a grade of a "C" or higher. Transfer credit for master's level coursework is not transferrable. Any exception to this policy must be approved by the Dean of Instruction.

A transfer student may be exempt from the placement test if appropriate math and/or English courses have been completed with a grade of "C" or better. The Director of Records and Registration will determine if placement testing is required.

## **Special Students**

Any high school graduate or anyone 18 years of age or older who does not plan to earn a degree, diploma, or certificate but who wishes to enroll in a college credit course may be admitted as a special student. Special students may register for courses if course prerequisites are met and if space exists in the class. A current SCC student's registration may take precedence over a special student's registration. Exceptions to any of the above statements must be approved by the Dean of Instruction.

Special students will be required to show proof of placement or course completion prior to enrolling in English, mathematics, or other restricted college-level courses. Students who have not met one of these requirements will be allowed to register only for non-restricted course.

Special students are not eligible to receive financial aid or veteran's benefits.

After successfully completing 16 semester hours of course work, a special student should meet with a counselor or with the Student Success Center concerning possible placement into a curriculum. Upon a later decision to pursue a degree, diploma, or certificate at Sandhills Community College, the special student will be asked to complete a new application, submit proof of high school graduation, and meet certain placement criteria.

Special students planning to transfer credits to another institution are encouraged to obtain written permission with specific course information from the institution from which graduation is planned.

## Home-Schooled Degree-Seeking Students

Students who have graduated from a home school must provide the following documentation for admission:

- Proof that the home school is listed with the NC Division of Non-Public Education. This can be verified by the admissions office at <http://www.ncdnpe.org/homechool.aspx> or a copy of the Certificate of Inspection issued by the State of North Carolina can be provided as verification.
- A final high school transcript, which includes the official school name and the principal's signature. The transcript must also include the graduation date and both the state and home school established minimum scores required on a Nationally Standardized Test.

If the above criteria cannot be met, home school applicants may also elect to take and pass the HSE exam in lieu of a high school diploma.

## Career and College Promise

Career and College Promise offers structured opportunities for qualified high school juniors and seniors to enroll in community college courses. These provide pathways that lead to a certificate, diploma, or degree as well as provide entry-level job skills and industry certifications. Academic credits earned through Career and College Promise shall enable students who continue into postsecondary education after graduating from high school to complete a postsecondary credential in less time than would normally be required. Sandhills Community College offers four types of pathways: Career and Technical Education, College Transfer, Cooperative Innovative High Schools Program, and Workforce Continuing Education.

### Career Technical Education Pathway

The Career Technical Education Pathway leads to a certificate or diploma aligned with one or more high school Tech Prep Career Clusters. Additional information on this pathway is available online at the College Programs for High School Students at [www.sandhills.edu/programs/high-school](http://www.sandhills.edu/programs/high-school).

### College Transfer Pathway

The College Transfer Pathway leads to a college transfer certificate requiring the successful completion of 32-35 semester hours of transfer courses, including English and mathematics, for qualified junior and senior high school students. Additional information on this pathway is available online at [www.sandhills.edu/programs/high-school](http://www.sandhills.edu/programs/high-school).

### **Cooperative Innovative High Schools Pathway**

SandHoke Early College High School (SECHS) represents a partnership between the Hoke County School System and Sandhills Community College to implement a Cooperative Innovative High Schools program. SECHS is designed to introduce students to the college setting in their sophomore year of high school by taking Sandhills Community College courses along with honors-level high school courses. The school offers a five-year program through which students have the opportunity to earn both their high school diploma and an Associate in Arts degree or an Associate in Science degree by successfully completing two years of transferable college credit.

### **Workforce Continuing Education Pathways (WCE-CCP)**

The Workforce Continuing Education Pathways lead to credentials from national, state, or industry-recognized associations making them eligible to enter the workforce or continue to earn an advanced degree.

## **TUITION AND FEES**

### **Residence Status for Tuition Purposes**

All residency determinations are made by the NC Residency Determination Service. The basis for determining the appropriate tuition charges is contingent upon whether a student is a resident or a nonresident for tuition purposes. To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve consecutive months immediately prior to classification. Thus, there is a distinction between legal residence and residence for tuition purposes. Furthermore, “twelve months legal residence” means more than simple abode in North Carolina. In particular, it means maintaining a domicile (permanent home of indefinite duration) as opposed to “maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education.” The burden of establishing facts that justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification.

For more information and to obtain residency classification, go to [www.ncresidency.org](http://www.ncresidency.org). The Admissions Office provides further information at 910-695-3781.

### **Tuition**

Fall and spring semester tuition for all courses is set by the North Carolina General Assembly and subject to change by its actions. The in-state curriculum tuition rate for the year 2018-2019 for all college credit courses was set at \$76.00 per credit hour up to a maximum of \$1,216.00 for sixteen (16) or more credits during the fall and spring semesters; however, at the time of publication of this document, the State of North Carolina had not set 2019-2020 tuition rates.

Out-of-state tuition for 2018-2019 was set at the rate of \$268.00 per credit hour each semester up to a maximum of \$4,288.00 for sixteen (16) or more credit hours for the fall and spring semesters; however, at the time of publication of this document, the State of North Carolina had not set 2019-2020 tuition rates.

### **Student Activity and Technology Fees**

The fee structure at Sandhills Community College is in accordance with policies established by the State Board of Community Colleges and is subject to change without notice. All students enrolled are charged a student activity fee of \$35.00. In addition, a technology fee of \$48 is charged each semester. The student activity fee covers the cost of a parking sticker, an I.D. card, accident insurance coverage, library and audiovisual privileges, activities



sponsored by the Student Government Association, a diploma for graduates, intramural and intercollegiate athletics, the use of the college fitness center, and other ancillary student-related college expenditures. The technology fee covers the cost of maintaining the computer labs, providing student printing, and supporting software updates.

## **Special Program/Course Expenses**

Some programs and courses require miscellaneous expenses for supplies, tools, uniforms, equipment, liability insurance, or travel. The schedule of classes or the class instructor for the following programs will provide specific information about such costs:

### **Programs Requiring Additional Expenses**

- Automotive Systems Technology
- Baking and Pastry Arts
- Basic Law Enforcement Training
- Collision Repair & Refinishing
- Cosmetology
- Culinary Arts
- Emergency Medical Science
- Health and Fitness Science
- Landscape Gardening
- Medical Laboratory Technology
- Nurse Aide
- Nursing
- Ophthalmic Medical Assistant
- Polysomnography
- Radiography
- Respiratory Care
- Surgical Technology
- Therapeutic Massage

### **Courses Requiring Additional Expenses**

- ART-231, 232, 283
- AST-111A
- BIO-094, 110, 111, 112, 120, 130, 140A, 163, 165, 166, 175, 275
- CHM-130A, 151, 152, 251, 252
- GEL-111
- HEA-112
- HUM-120, 220
- PED-163, 173, 181, 212
- PHY-110A, 131, 151, 152, 251, 252
- PSY-118

## TUITION AND FEES

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- SCI-110
- SPA-161

Students in Health Science and Nursing Programs (excluding Nurse Aide and Therapeutic Massage) will be assigned a \$20 fee for medical record tracking in their first curriculum course. This fee is required for clinical participation in these classes:

- EMS-121 AEMT Clinical Practicum
- EMS 122 EMS Clinical Practicum I
- MLT-110 Intro to MLT
- NUR-111 Introduction to Health Concepts
- NUR-214 Nursing Transition Concepts
- OPH-150 Intro to Ophth Med Assist
- RAD-110 Rad Intro & Patient Care
- RCP-110 Intro to Respiratory Care
- SUR-110 Intro to Surgical Technology

In addition, students enrolled in courses that take part in personal service or medical-related situations such as clinical or work-based learning experiences will be required to pay a fee of \$18 per year for professional liability insurance.

### **Criminal Background Check and Drug Screen Testing**

It is the procedure of Sandhills Community College Health Sciences and the Nursing Departments to adhere to all policies of clinical agencies with which the College contractually affiliates for student clinical learning experiences. Drug screens and criminal background checks are required by clinical healthcare affiliates in order to attend clinical rotations. Therefore, students admitted to programs with a clinical component are also required to pay for an official criminal background check and drug screen to meet the requirements of the clinical agencies.

### **Tuition Payments**

Students have a number of options when paying tuition:

- They can pay online by accessing their account through WebAdvisor.
- They can make payments in person Monday–Friday during business office hours. Additional payment dates and times are located on or attached to the back of each student’s registration form and are also posted online at [www.sandhills.edu](http://www.sandhills.edu).
- A drop box is located on the outside wall of Stone Hall and is available for payment twenty-four (24) hours a day, seven (7) days a week, unless otherwise posted.

- Students can mail payments to SCC, Attn: Business Office, 3395 Airport Road, Pinehurst, NC 28374.

Students should not make out checks in advance as payment is required in full and cash refunds are not given. When making or scheduling payments, students must include fines and fees in the total balance. An unpaid balance on an account can cause a student's schedule to be cleared of classes.

Students with account balances after the "last payment day" will be dropped from their classes.

## **Tuition and Fees Waivers for Qualified High School Students and Full-Time College Employees**

Qualified students may receive a tuition or fees waiver, which will automatically post upon registration. High school students enrolled through one of the pathways of Career and College Promise will receive a waiver of tuition, activity fees, and technology fees for each fall and/or spring semester, subject to change by action of the North Carolina General Assembly. Full-time employees of Sandhills do not receive a waiver of tuition, but the college may pay for one class (up to 3 credits) each fall and/or spring semester.

## **Payment Responsibility**

Students are responsible to pay for classes from which they do not officially withdraw prior to the first day of classes. If financial aid is removed or the third-party sponsor does not pay due to a student's lack of attendance, the student is liable for the tuition and/or fee charges. It is important that official withdrawal occur if a student does not plan to attend class so that the class seat is available for other students.

## **Graduation Fee**

Graduating students are expected to participate in commencement exercises. All students participating in commencement exercises should order a cap and gown from the Logan Bookstore. The cost of the cap and gown is approximately \$40.00.

## **Refund of Tuition and Fees: State Refund Policy**

The refund policy is set by the North Carolina General Assembly and is subject to change by its actions. A pre-registered curriculum student who officially drops one or more classes prior to the first day of the semester will be eligible for a one hundred percent (100%) tuition refund. The student activity and technology fee will also be refunded if the student drops all classes prior to the first day of the semester. Thereafter, a refund of seventy-five

percent (75%) of only the tuition will be made through the ten percent (10%) date of the semester. Students do not qualify for a refund of fees after the one hundred percent (100%) date. All tuition will be refunded if a class is canceled. The 100% and 75% dates are published on or attached to the back of the schedule form and are posted online at [www.sandhills.edu](http://www.sandhills.edu).

Refunds will be processed within four weeks of the 10% date. Students should ensure that their address is correct with the Admissions Office so that they receive their refund check in a timely manner. Payments made by credit card will be refunded directly to the credit card account on file in the Business Office.

## **Refund Policies for Financial Aid Students Who Withdraw from Courses**

### **North Carolina Policy**

If a student receives North Carolina grant aid and drops all of his or her classes, a State refund calculation must be performed to determine how much aid the student has earned. The earned amount is determined by calculating the number of class days prior to the date of withdrawal. The unearned portion must be returned. This may require repayment by the student of all or part of any State money that the student received. The return of State funds required by this policy will be applied in the following order up to the maximum amount of funds disbursed from each program:

1. Education Lottery Scholarship Program (ELS);
2. Institution-Specific State Grants:
  - a. UNC Need-Based Grant (UNC NBG);
  - b. North Carolina Community College Grant; or
  - c. North Carolina Need-Based Scholarship Programs (NBS);
3. North Carolina National Guard Tuition Assistance Program
4. UNC Campus Scholarships;
5. North Carolina School of Science and Mathematics Tuition Grant for UNC;
6. John B. McLendon Scholarship Fund.

### **Federal Refund Policy**

The Federal Refund Policy applies to all students receiving federal financial aid funds, including those who qualify for the state refund policy mentioned above. This policy requires the school to determine the amount of Title IV aid a student has earned. The earned amount is determined by calculating the number of class days prior to the date of withdrawal. The unearned portion

must be returned. This may require repayment by the student of all or part of any federal money that the student received.

Refunds will be allocated by law according to the following order:

**1. Loans**

Federal Unsub Direct loans  
Federal Subsidized Direct loans  
Federal Perkins loans  
Federal Direct PLUS loans

**2. Grants**

Federal Pell Grant  
FSEOG  
TEACH  
Iraq/Afghan Service Grant

Students may obtain further information regarding these refund policies and refund calculations from the Financial Aid Office located in Stone Hall.

## STUDENT RECORDS

The personal records of students are supervised by the Director of Records and Registration. Material contained in students' personal folders, with the exception of confidential letters of recommendation written prior to January 1, 1975, may be reviewed by students upon request to the Director of Records and Registration. In accordance with the Family Rights and Privacy Act of 1974, certain student information categorized as "directory information" may be provided to persons other than the student. Directory information includes the student's name, city & county of residence, photograph, major field of study, participation in officially recognized activities and sports, dates of attendance, grade level, student email address, degrees and awards received, and the most recent educational agency or institution attended by the student. A student who desires that any or all of the above-stated directory information not be released must sign a request in the Office of Records and Registration no later than two (2) weeks after the first day of class each semester. More information related to the privacy of student records can be found in the "Compliance" section of this *Catalog*.

### Grades

Students can view their grades online at the end of each semester through WebAdvisor under *Transcript*, or Self Service under *Grades*. If a student believes an error or omission has been made, the student should contact the instructor of the class as quickly as possible. All errors and any pursuant corrections must be reported to the Office of Records and Registration within two weeks of the close of the semester.

Grades are provided to other schools, parents, guardians, or others only with the written and signed authorization of the student. This authorization must be given to the Office of Records and Registration.

### Graduation Requirements

Upon recommendation of the faculty and the approval of the Director of Records and Registration, degrees, diplomas, and/or certificates will be awarded to students successfully completing the requirements of the program in which they are enrolled.

To be eligible for graduation, all students must do the following:

- Successfully complete course requirements as prescribed in the *Catalog* in effect at the time of entry into the program. If students have an interruption in enrollment from their designated program of study of two or more years, they will be subject to the program requirements prescribed in the *Catalog* in effect upon their re-entry into the program.

- Earn a minimum of a 2.0 grade point average in the required courses of the program of study for which they are applying for graduation. ***All health science and nursing students must complete all courses required in their program of study for graduation with a letter grade of C or better.***
- Successfully complete a minimum of 25 percent of course credit hours of the certificate, diploma, or associate degree requirements at Sandhills Community College, with that 25 percent coming from **major and other major hours**, and not from general education hours, for the program of study. The Director of Records and Registration verifies completion of 25 percent as part of the graduation application process.
- Meet with their advisor to review academic progress and verify eligibility for graduation in the 2019-20 academic year. Fall completers apply for graduation by November 7, 2019; Spring/Summer completers apply by February 6, 2020. To apply for graduation log into *Self Service*, then *Graduation Overview* to begin the process. In order to participate in the May commencement and be considered a 2020 Sandhills Community College graduate, all of the above academic requirements must be met by the end of the summer semester 2020. Those who submit late applications for graduation run the risk of not being included in the commencement program. Honor distinctions for late applicants will not be recognized during commencement.
- Clear all financial obligations to the College.

Students are eligible to graduate with honors if their major GPA is a 3.5 or higher.

Students may apply to graduate with both a certificate and associate degree in the same program for the same academic year if the certificate contains technical electives not specified by course in the degree program.

Students cannot apply to graduate from both the Associate in Science and Associate in Arts degree programs for the same academic year.

Students cannot apply to graduate with the Associate of General Education degree if they are graduating or *have* graduated with another associate's degree (A.A.S, A.S. or A.A).

Students are required to wear academic regalia during commencement. Regalia (caps and gowns) should be purchased from the Sandhills Community College Logan Bookstore in the Dempsey Student Center.

## **Transcripts**

Transcripts are issued at the request of the student. Sandhills Community College has authorized the National Student Clearinghouse to provide transcript ordering via the web. Orders may be placed 24 hours a day, 7 days a week and transcripts can be sent by electronic exchange, electronic PDF, or mail. Sandhills Community College certifies that an electronic transcript issued by the National Student Clearinghouse is an official college transcript. The acceptability of an electronic transcript will be determined by the recipient in accordance with their policies and procedures.

For those who choose not to use the National Student Clearinghouse, orders may be placed in person in the Office of Records and Registration located in Stone Hall. No official transcript will be issued to or for an enrolled or former student who is indebted to the College.



## **FINANCIAL AID**

Financial assistance at SCC is available for degree-seeking students in qualified programs through grants, scholarships, and/or work-study employment. A student must apply for financial assistance and may be offered a single type of assistance or a combination package depending on the level of need and eligibility requirements. Aid may be provided by or through the college, federal and state agencies, foundations, or corporations. The student or the student's family is considered primarily responsible for paying for educational expenses. Financial assistance from the College and other sources should be considered only as a supplement to the efforts of the student or family. All policies pertaining to financial aid regulations and procedures are available for viewing in the Financial Aid Office. Most financial aid is awarded on a first-come, first-served basis, so students are encouraged to apply for financial aid as early as possible.

### **Financial Aid Programs**

#### **Federal Pell Grant**

The Federal Pell Grant Program is the largest federal student financial aid program. Pell grants are awarded to help undergraduates who are in curriculum programs pay for their education after high school. These grants may require repayment if the student does not fully complete the term. A student is eligible to receive the Federal Pell Grant for the equivalent of six (6) years or twelve (12) fulltime semesters of combined enrollment at all institutions; enrollment is not limited to time spent at Sandhills. To apply for a Federal Pell Grant, students need to complete the Free Application for Federal Student Aid (FAFSA). The grant amount is determined by the federal government and awarded based on need. Students must complete the financial aid process prior to their last date of attendance in an academic year.

#### **Federal Supplemental Opportunity Grant**

Federal Supplemental Educational Opportunity Grants (FSEOG) are awarded to Federal Pell Grant recipients with exceptional financial need. These grants may require repayment if the student does not fully complete the term. Candidates for this grant are selected from applicants who have completed the FAFSA, and funding is limited.

#### **Federal and Institutional Work-Study Program**

The Federal and Institutional College Work-Study (WS) Programs provide jobs for students who need additional financial aid. WS gives students a chance to earn money to pay for their educational expenses and is a great way for students to gain valuable work experience. WS students work an average

of ten (10) hours a week at a rate determined by the institution. Current job descriptions can be found at [www.sandhills.edu](http://www.sandhills.edu).

The student must complete an online WS application found at [www.sandhills.edu](http://www.sandhills.edu), and then the WS Coordinator will determine financial eligibility. Placement is based upon job availability and student skills. Students initially should be enrolled in six or more credit hours for fall and/or spring term to participate in the program. Before beginning work, all participants must review the *Work-Study Handbook* and complete all required employment paperwork. When a student is placed in a position, a supervisor is assigned to monitor the work performed. WS students are required to complete a monthly timesheet and are paid at the end of the following month. Eligible students are placed in WS positions for each academic year based upon available funds.

### **Student Loans**

Sandhills Community College does not participate in the Federal Direct Loan Program. Alternative loans may be available for curriculum students. Please see the Financial Aid Office for more information.

### **NC Community College Grant**

The North Carolina Community College Grant (NCCCG) is awarded to NC residents. These grants may require repayment if the student does not fully complete the term. Eligibility is determined by the State, is limited to six (6) semesters for the individual grant, and is based on the Expected Family Contribution (EFC) calculated in the FAFSA form. Funding for the NCCCG is limited and only available in the fall and spring semesters.

### **NC Education Lottery Scholarship**

The NC Education Lottery Scholarship (NCELS) is awarded to NC residents. These grants may require repayment if the student does not fully complete the term. Eligibility is determined by the State, is limited to ten (10) semesters, and is based on the Expected Family Contribution (EFC) calculated in the FAFSA form. Funding for the NCELS is limited and only available in the fall and spring semesters.

### **Childcare Grants**

Limited childcare subsidies are available to economically disadvantaged students. An application may be obtained online or in the Financial Aid Office. The open application period begins in June, and the process of awarding childcare subsidies starts in July. Applications are received on a continuing basis during the school year, and a waiting list is maintained until the following June. At that time, continuing students receiving subsidies are re-

certified. Re-certification is not guaranteed. Students not receiving previous subsidies may re-apply, and new students may apply. A history of satisfactory academic progress is required, and the student must maintain satisfactory academic progress to continue receiving a childcare subsidy.

### **Endowed and Donor Scholarships**

SCC offers many endowed and donor scholarships. A student completes a single application to apply for all SCC Scholarships. The application must be completed online at [www.sandhills.edu](http://www.sandhills.edu) beginning in November of each year. Selection of recipients is made by the College during the spring term for scholarship funds to be used for the upcoming school year beginning in the fall.

### **The Sandhills Promise Program**

The Sandhills Promise Program is for Moore and Hoke County residents who graduate from a public/private high school or registered home school having completed four dual enrollment courses at Sandhills with a cumulative GPA of at least 2.0 and a 67% completion rate by the time of high school graduation. For students who qualify, the College will pay the tuition and technology & activity fees up to the in-state rate for two years, including summer terms. The two years of eligibility begin in the fall semester after high school graduation and end following the summer semester of the second year. To apply, students must complete both the Free Application for Federal Student Aid (FAFSA) and the SCC Scholarship Application annually. For more information, students may contact the Financial Aid Office.

### **Other Funds and Outside Scholarships**

Other outside scholarships and funds are available to assist students. Some of these include employer-paid tuition, the Workforce Investment Act through the Employment Security Commission, Vocational Rehabilitation, Department of Social Services, and Veterans Administration. Please see the appropriate agency to determine qualification for any of these programs.

### **Federal Aid Eligibility Requirements**

To receive aid, a student must follow these guidelines:

- File a Free Application for Federal Student Aid (FAFSA) application each school year.
- Take only courses that are needed to fulfill graduation requirements.
- Enroll as a degree-seeking student in an eligible program.
- Have an official high school or HSE transcript on file with the Admissions Office.
- Have all college transcripts on file with the Admissions Office within the timeframe required by College policy.

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## FINANCIAL AID

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- Be a U. S. citizen or an eligible non-citizen.
- Demonstrate financial need.
- Make satisfactory academic progress.
- Not be in default on a federally subsidized education loan.
- Not owe a federal refund due to a withdrawal from all courses during a term of enrollment.
- Not have been convicted of a drug-related offense while receiving federal financial aid.

### **Federal Aid Enrollment Classification**

For all semesters of enrollment (fall, spring, summer), full-time credit hours for financial aid is 12 or more credit hours. Financial Aid for students registered for fewer than 12 total credit hours per semester will be prorated as follows:

- 9 to 11 credit hours =  $\frac{3}{4}$  time or 75% of the award
- 6 to 8 credit hours =  $\frac{1}{2}$  time or 50% of the award
- Fewer than 6 credit hours = 25% of the award or less — see below

Students who are enrolled for fewer than 6 credit hours per semester may be eligible for only a small amount of Pell Grant, or no Pell Grant at all. Students enrolled for fewer than 6 credit hours are not eligible to receive certain State and Federal grants. NC Community College Grant (NCCCCG) and NC Education Lottery Grant (NCELS) are not awarded to students who are less than half-time credit hours. NCELS is awarded on a full- or half-time amount only. NCELS and NCCCCG are not funded in the summer terms.

### **Federal Aid Enrollment Status Determination for Clock Programs**

The determination of enrollment status (full,  $\frac{3}{4}$ ,  $\frac{1}{2}$ , or less) is, by federal regulations, different for the following programs of study:

- Cosmetology Certificate (C55140)
- Cosmetology Diploma (D55140)

The programs are paid based on clock hours, not credit hours. For more information regarding clock hour programs, please see the Financial Aid Office.

## **Unusual Enrollment History (UEH)**

### **Purpose**

In order to prevent fraud and abuse in the Federal Pell Grant and Federal Direct Loan Programs, the Federal Department of Education (DOE) identifies students with unusual enrollment histories. This policy describes what steps a student must take to resolve questions about his/her enrollment history and how Sandhills Community College (SCC) will handle the review process to determine the student's future eligibility for federal and state financial aid at SCC.

### **Scope**

When the Department of Education identifies a student with an unusual enrollment history with regard to the receipt of Pell Grant funds and/or Federal Direct Loan funds, SCC must examine the student's academic and enrollment records to determine whether there are valid reasons for the unusual enrollment history. The outcome of the review will determine whether the evidence supports the continuation of Title IV, HEA program assistance eligibility for the student (which includes but is not limited to the Pell Grant, Federal Work Study, the Federal Supplemental Educational Opportunity Grant, as well as all state grants). SCC may also review the enrollment history of a student not identified by DOE as having an unusual enrollment history if it believes the student's prior academic history warrants such a review.

### **Unusual Enrollment History Comment Codes**

After a student submits a FAFSA (or makes a change to his/her FAFSA) or the Department of Education generates an update that reflects a change in student eligibility, the student receives a Student Aid Report (SAR). If the SAR shows a Comment Code 359 or 360, SCC must review the student's academic and enrollment records to determine if additional information must be collected about the student's prior enrollment. A student selected by SCC for UEH review will be treated as though DOE had assigned Comment Code 360. Examples of unusual enrollment histories that must be reviewed are when a student received Pell Grant and/or Federal Direct Loan funds at three institutions over two award years or at three or more institutions in one award year. Any federal or state aid that has already been awarded for the current award year will be placed on hold pending the outcome of the student's review by the Financial Aid Office. If a student is deemed ineligible, all funds will be sent back to the government, and the student will owe SCC for all semester costs.

## Resolving Unusual Enrollment Histories

SCC Financial Aid must review a student identified as having an unusual enrollment history when he or she has indicated intent to enroll at SCC using financial aid. The student must complete an **Unusual Enrollment History Form** from SCC Financial Aid and provide copies of academic transcripts to the Financial Aid Office for *each* institution attended (other than SCC) *where the Pell Grant and/or Federal Direct Loan funds were received* during the review period which includes the four award years prior to the current award year. A student may view his/her Pell Grant and/or Federal Direct Loan history by going to [www.nsls.ed.gov](http://www.nsls.ed.gov) and logging in using his/her Federal Student Aid PIN. Official academic transcripts for all other institutions attended during the review period must be sent to the SCC Admissions Department (if not already on file) *before* the student's record can be reviewed by SCC Financial Aid. Students may obtain copies of the official transcripts already on file with SCC by completing a **Request for Unofficial Copy of Other College Transcripts Form** available from SCC Admissions or Registrar. During the review, SCC Financial Aid will use information from the National Student Loan Data System (NSLDS) to identify/verify the institutions where the student received Pell Grant and/or Federal Direct Loan funding over the past four award years.

### SAR Comment Code 359

The institution must review the student's enrollment and financial aid records to determine if, during the four award years prior to the current award year, the student received a Pell Grant at SCC that is performing the review. (Federal Direct Loans are not included in this section because SCC has not participated in the Federal Direct Loan Program during the review period.)

- If the student received the Pell Grant at SCC during the review period, SCC will look to see if the student successfully completed any credits and, if the student dropped or withdrew from classes, the last date of attendance. No additional action is required unless SCC has reason to believe that the student is one who remains enrolled just long enough to collect student aid funds. In this case, SCC must follow the guidance that is provided below for Comment Code 360.
- If the student did not receive the Pell Grant at SCC during the review period, SCC must follow the guidance provided below for Comment Code 360.

### SAR Comment Code 360

SCC must review the student's academic records to determine if the student received academic credit at the institutions the student attended during the four award years prior to the current award year. Based upon the academic transcripts provided by the student, SCC must determine, for each of the previously attended institutions, whether academic credit was earned during

the award year in which the student received Pell Grant and/or Federal Direct Loan funds. Academic credit is considered to have been earned if the academic records show that the student completed any credit hours or clock hours, or if a grade was earned for any remedial classes.

- **Academic Credit Earned:** If SCC determines that the student earned any academic credit at *each* of the previously attended institutions during the relevant award years, no further action is required unless SCC has other reasons to believe that the student is one who enrolls just to receive the credit balance. In such instances, SCC must require the student to provide additional information as discussed below under “Academic Credit Not Earned.” If it is determined that academic credit was not earned at one or more of the previously attended institutions, SCC must follow the “Academic Credit Not Earned” guidance below.
- **Academic Credit Not Earned:** If the student did not earn academic credit at a previously attended institution and, if applicable, at the institution performing the review, SCC must obtain documentation from the student explaining why the student failed to earn academic credit.
  - **Documentation Required:** The student must have completed an **Unusual Enrollment History Form** from SCC Financial Aid to explain the failure to earn academic credit. Personal reasons may include illness, family emergency, a change where the student is living, and military obligations. Academic reasons may include unexpected academic challenges or that the academic program did not meet the student’s needs. Whatever the reason, the student must, to the extent possible, submit third party documentation to support his/her claims. *SCC may be unable to approve a claim that is submitted without supporting documentation.*

### SCC UEH Review Process

The SCC Financial Aid administrator will determine whether the circumstances of the failure of the student to receive academic credit, as evidenced by the student’s academic records and other documentation, support the continuation of Title IV, HEA program assistance eligibility. Specifically, the institution must determine whether the documentation supports (1) the reasons given by the student for the student’s failure to earn academic credit; and (2) that the student did not enroll only to receive credit balance funds. The Financial Aid administrator will review the student’s documentation, and the student will be informed of the decision in writing.

### **Denial of Continued Eligibility**

If a student did not earn academic credit at one or more of the relevant institutions and does not provide, to the Financial Aid administrator's satisfaction, an acceptable explanation and documentation for each of those failures, SCC must deny the student any additional Title IV, HEA program assistance and any state grants. If a student disagrees with the determination by the Financial Aid administrator, he or she may appeal the decision to the Vice President of Student Services. This appeal must be submitted in writing within five (5) business days from the date of the letter from the Financial Aid administrator. The decision of the Vice President of Student Services is final and is not appealable to the Department of Education.

### **Regaining Aid Eligibility**

If SCC denies a student continued Title IV, HEA program assistance under the circumstances described above, the student who attends Sandhills Community College (without federal or state financial aid) may regain financial aid eligibility upon successful completion of academic credit and his/her subsequent written request to the Financial Aid Office for renewal of Title IV, HEA program eligibility. Once approved, the student would regain eligibility for the Pell Grant, campus-based aid programs, and state grants beginning with the payment period in which the student met the eligibility requirements.

## **Veterans Benefits, Programs, and Guidelines**

### **Veterans Affairs**

Sandhills Community College education programs are approved by the North Carolina State Approving Agency for the enrollment of persons eligible for education assistance benefits from the U.S. Department of Veterans Affairs (VA). Those entitled to VA benefits are eligible veterans, participants in the Montgomery G.I. Bill contributory program, active duty military in voluntary education programs, drilling National Guard, drilling Reservists, and spouses and children of disabled or deceased veterans. The VA certifying official in the Financial Aid Office provides information and assistance to students applying for VA education benefits. Following is a general description of the veteran benefit programs available at SCC. Please see the VA certifying official regarding any specific questions regarding these programs.

Sandhills Community College is a member of the Service Members Opportunity Colleges (SMOC), a participant in the Concurrent Admissions Program (ConAP), and a Principles of Excellence educational institution.



### **Montgomery GI Bill (MGIB)**

The MGIB program provides up to 36 months of education benefits. This benefit may be used for approved degree and certificate programs at SCC. Remedial, deficiency, and refresher courses may be approved under certain circumstances. Generally, benefits are payable for 10 years following an individual's release from active duty. This program is also commonly known as Chapter 30.

### **Montgomery GI Bill-Selected Reserve (MGIB-SR)**

The MGIB-SR program may be available to a student if he/she is a member of the Selected Reserve. The Selected Reserve includes the Army Reserve, Navy Reserve, Air Force Reserve, Marine Corps Reserve and Coast Guard Reserve, and the Army National Guard and the Air National Guard. This benefit may be used for approved degree and certificate programs here at SCC. Remedial, deficiency, and refresher courses may be approved under certain circumstances.

### **Post-9/11 GI Bill (Chapter 33)**

The Post-9/11 GI Bill provides up to 36 months of education benefit. This benefit is for eligible individuals who served on active duty after 09/10/01. This benefit may be used for approved degree and certificate programs at SCC. Remedial, deficiency, and refresher courses may be approved under certain circumstances. Generally, benefits are payable for 15 years following an individual's eligibility date, unless a student qualifies for the Forever Bill detailed below. There is a transferability component for eligible individuals to transfer this benefit to spouse or dependents. This program is known as Chapter 33.

The Veterans Benefits and Transaction Act of 2018 (Public Law 115-407) provides provisions regarding GI Bill and Chapter 31 processes. GI Bill and VR&E beneficiaries (Chapter 33 and Chapter 31 beneficiaries) are allowed to attend their course(s) of education or training without paying tuition and fees out of pocket if the beneficiary provides the VA Coordinator a Certificate of Eligibility (CoE) or a valid VA Form 28-1905. The college will not impose a penalty or payment requirement on the beneficiary based on late (more than 90 days) payments from VA. However, the CoE or VA Form 28-1905 must be received no later than the first day of the program.

### **Forever GI Bill**

The Forever GI Bill eliminates the 15 year time limitation for service members (and dependents) discharged on or after January 1, 2013. As with the Post-9/11 GI Bill, the benefit may be used for approved degree and certification

programs at SCC. Remedial, deficiency, and refresher courses may be approved under certain circumstances.

### **Reserve Education Assistance Program (REAP)**

REAP supports a member of a reserve component who served on active duty for a contingency operation after September 11, 2001 and who served at least 90 or more consecutive days. The program officially ended on November 25, 2015; however, some students may still be eligible to receive REAP benefits until November 25, 2019. For more info on eligibility, the application process, and rates of pay, students should visit [www.gibill.va.gov](http://www.gibill.va.gov).

### **Survivors' and Dependents' Educational Assistance Program (DEA)**

DEA provides education and training opportunities to eligible dependents of veterans who are permanently and totally disabled due to a service-related condition or who died while on active duty or as a result of a service-related condition. The program offers up to 36 months of education benefits. These benefits may be used for approved degree and certificate programs at SCC. Remedial, deficiency, and refresher courses may be approved under certain circumstances.

### **Vocational Rehabilitation Employment Program (Chapter 31)**

The Veterans Benefits and Transaction Act of 2018 (Public Law 115-407) provides provisions regarding GI Bill and Chapter 31 processes. GI Bill and VR&E beneficiaries (Chapter 33 and Chapter 31 beneficiaries) are allowed to attend their course(s) of education or training without paying tuition and fees out of pocket if the beneficiary provides the VA Coordinator a Certificate of Eligibility (CoE) or a valid VA Form 28-1905. The college will not impose a penalty or payment requirement on the beneficiary based on late (more than 90 days) payments from VA. However, the CoE or VA Form 28-1905 must be received no later than the first day of the program.

### **VA Work-Study Program**

Work-study is available on a limited basis to students receiving VA education benefits and attending school at least three-quarter time. An individual working under this program may work at the college's VA office or at approved state employment offices. Work-study is paid at the minimum wage rate, and students can work up to 25 hours a week.

## **NC National Guard Tuition Assistance Program (NC TAP)**

NC TAP is available to any student who is a member of the North Carolina National Guard and pays tuition/fees. Students who wish to apply for the benefits must do so through the website <http://nc.ng.mil/ESO/Pages/NCTAP.aspx>.

## **The Yellow Ribbon Program**

The Yellow Ribbon Program offers tuition assistance to Chapter 33 veterans whose out-of-state tuition costs are not fully covered by their benefits and their maximum benefit payable is 100%. It is a federal program funded by both the Department of Veterans Affairs and Sandhills Community College. The program is administered on a first-come, first-served basis each academic year. For questions regarding the program, please contact the Veterans Affairs Office.

## **VA General Eligibility Requirements**

To be eligible for educational benefits, the student must be enrolled in an approved curriculum, taking only those courses required for graduation in the chosen curriculum. Students must make and maintain academic progress in their program of study in order for their benefits to be continuously certified.

The VA will not pay for enrollment in the following: (1) course audits, (2) repeated courses previously passed, (3) credit by examination, (4) courses not required in chosen curriculum, (5) continuing education classes, and (6) dropped or withdrawn classes.

## **VA Documentation**

VA regulations governing institution-approved training of veterans and/or dependents of veterans require that certain documents be on file prior to certification of enrollment. Certification will not be made until the VA certifying official receives all documentation. It takes 60-90 days from the date of certification for benefits to start. Required documentation is as follows:

1. Application for admission with all required documentation;
2. Proper Application for VA benefits (form 22-1990, 22-5490, or 28-1990) and all required supporting documentation, including but not limited to the following items:
  - (a) Copy of Page 4 of the DD-214 or National Guard form DD-2384 "NOBE" signed by the Unit Commander;
  - (b) Copy of marriage certificate (if applicable);
  - (c) Copy of divorce decree (if applicable);
  - (d) Dependent children's birth certificates (if applicable);
3. Official high school transcript or HSE scores and all academic transcripts from each college previously attended.

If VA benefits have been received for prior training, the student must submit form 22-1995, Change of Program or Place of Training.

All veterans and dependents of veterans are required to submit a copy of their class schedule to the VA certifying official each semester. A student will not be certified for benefits until this schedule is submitted.

Students receiving VA benefits must notify the VA certifying official of any changes in class load, attendance, or enrollment status within three days of the change. Failure to notify the VA certifying official of these changes may result in termination of benefits and certification of future benefits at the end of the subsequent term upon receipt of the student's official grade report.

## **STUDENT SERVICES**

### **Campus Health and Safety**

Sandhills Community College is committed to maintaining a safe, healthy, and positive work and learning environment. Toward that end, in a good faith effort to ensure the safety and welfare of all the campus community, the college has adopted codes, statements, and policies that are detailed in the college's *Catalog* and the *Policy and Procedures Manual*, as well as being posted online at [www.sandhills.edu](http://www.sandhills.edu).

#### **Campus Health and Safety Awareness Activities**

Guest speakers, hosted by Student Services, provide workshops on such topics as alcohol/substance abuse, campus security, crime and crime prevention, stress management, financial awareness and credit management, and safety issues. Referrals are made, as needed, to local agencies such as hospitals, mental health centers, social services, Friend-to-Friend, private counselors, and self-help groups. Literature on many health and safety issues is provided in the Dempsey Student Center and in the Counseling Center in Stone Hall. Every other year, the Safety and Environmental Committee hosts a health fair for faculty, staff, students, and community.

#### **Communicable Disease**

Any individual who knows or has a reasonable basis for believing that he or she is infected with a communicable disease (including but not limited to chickenpox, hepatitis, measles, Acquired Immune Deficiency Syndrome [AIDS], meningitis, mononucleosis, and whooping cough) has an obligation to protect himself or herself and others from the ramifications of the disease. Specifically, such individuals should report this information to the appropriate person (see below). Every effort will be made to try to keep the matter confidential. Only persons with a need to know will be informed and only with prior direct knowledge of the individual who is or believes he or she may be infected.

Curriculum students should report a communicable disease condition to the Vice President of Student Services. Continuing Education students should report such conditions to the Vice President for Continuing Education and Workforce Development. The Director of Moore County Health Department will be immediately notified. At the Hoke Center, communicable disease conditions should be reported to the Dean of the Hoke Center who will then report them to the Vice President of Student Services and to the Hoke County Health Department.

The appropriate Vice President will take necessary steps to ensure the medical safety of the student and the college community; if deemed necessary for the good of all, the student may be asked to remove himself or herself from the campus until a necessary evaluation of the condition is completed and the President of the College issues a final ruling concerning the enrollment status of the student.

This policy is one part of the College's on-going attempt to promote awareness, education, and counseling on communicable diseases. More information is available in the "Compliance" section of this *Catalog*.

### **Student Accident Insurance**

Each year, the Student Government Association (SGA) purchases a student accident insurance plan, an excess policy that may cover medical expenses of students caused by accidental bodily injury during college-related academic and social activities. The provisions governing this policy are contained in the master policy issued to the school and may be viewed during the school's office hours. A brief description of the policy, which varies from year to year, will be available through the Office of Student Services at the beginning of each academic year. Students may obtain a brochure or file a claim with the Administrative Assistant to the Executive Vice President in Stone Hall, 105A, 695-3702.

## **Counseling and Career Services**

### **Personal Counseling**

Here at Sandhills Community College, your personal wellness is important to us. We have licensed professional counselors who are available to assist all enrolled students with issues that may affect your wellbeing. Our counselors will provide you with a safe, private, confidential counseling space to share your issues. Counseling sessions are typically scheduled by appointment and may last up to forty-five (45) minutes. Students are also encouraged to walk in as well. Our goal is to *help*. These sessions provide opportunities for students to explore their personal growth with a counselor and increase autonomy, self efficacy, and overall vitality which help to create success in an academic environment.

Sandhills Community College does not charge students a fee for counseling sessions or for assessments used in providing counseling services. For students who choose to seek professional counseling services from off-campus providers, our counselors can assist with appropriate referrals. The Counseling Center's offices are located on the Pinehurst campus at 229 Stone Hall and 100 Blue Hall (inside the Career Center). At the Hoke Center, the Counseling Center is located at 112 Johnson Hall. For additional information or to

schedule an appointment, students may call the Pinehurst campus at 910-695-3968 or (910) 246-4944; students may also schedule an appointment at the Hoke Center by calling 910-875-5804.

## **Career Development**

The Career Development professionals provide services that prepare college graduates for a successful transition into the workforce. Our staff provides training to ensure competency in the following areas: oral/written communication skills, professionalism/work ethic, resume writing, interviewing skills and career management. The Career Resource Library provides career-related materials to assist students in further developing their career competencies

## **Career Services**

Student career services are available for current, alumni, and prospective students. The services offered are: career assessments, job searching strategies, career counseling, student engagement (career meet-ups/roundtable), career workshops, business referrals, networking, and a shared online job search link, [www.collegecentral.com/sandhills/student.cfm](http://www.collegecentral.com/sandhills/student.cfm). Our job link provides access to current job market information. Guidance related to student employment is available in Blue Hall, room 103.

## **Job Fairs**

The SCC Career Center hosts two job fairs each year on campus, Fall and Spring semesters. Job Fairs provide an opportunity for a variety of employers to visit campus to provide networking and job considerations with our students. The Director of Career Development Services develops relationships with both local and regional employers to develop job opportunities for Sandhills Community College students.

## **Guarantee to Employers**

Sandhills Community College guarantees that its graduates are proficient in the knowledge and skills covered by their educational programs. In the event that an employer finds a Sandhills graduate deficient in such an area, the employer should — within 90 days of the graduate's employment — contact the Vice President of Academic Affairs. The Vice President of Academic Affairs will arrange to re-enroll the graduate in up to three (3) courses at the College at no charge to the graduate or the employer. This guarantee applies to graduates of two-year associate in applied science degree programs and one-year diploma programs.

## **Student Involvement in the Institution**

### **Student Government Association (SGA)**

Many student activities at Sandhills Community College are sponsored by the Student Government Association (SGA). Efforts are made to provide students with cultural, social, recreational, and service-oriented activities. Activities sponsored by the SGA include free food days, national days, the annual Fall Fest and Spring Fling, holiday festivities, coffee and doughnuts during exams, and a variety of other events.

The SGA is always looking for new ideas and new Senators. To become a Senator, students must complete a simple online application via Engage at <http://sandhills.campuslabs.com/engage/>, maintain at least a 2.0 GPA, contribute at least two hours per week to SGA activities, and possess high motivation. Every student on campus is a member of the SGA, and the SGA acts as the students' voice at SCC. Not only does the SGA sponsor fun events and activities, but it also presents student comments and concerns to the administration and the Board of Trustees. In fact, the SGA President is a trustee of the College.

The SGA office is located upstairs in the Dempsey Student Center, inside the Ewing Leadership Wing.

### **Student's Role in Institutional Decision-Making**

By statutory requirement, the President of the Student Government Association serves ex officio on the Board of Trustees, the governing body of the College. Students are appointed to the following standing committees: Safety and Environmental, Scholarships, and Student Grievance Committee. In these committees, students have opportunities to study and comment on proposed policies and procedures and to rule on appeals related to student disciplinary cases.

Most significantly, the Student Government Association gives students experience in representative government. Officers are elected by the student body. Students interested in serving in the SGA can get information directly from the Sandhills website or the Director of Student Life located in the Dempsey Student Center.

### **Student Publications**

The Student Government Association produces an in-house, weekly bulletin written by and designed for students.



This bulletin, published weekly, and sent via SCC student email accounts, is overseen by the SGA Public Information Officer and the Director of Student Life, with content by members of the SGA, the student body and SCC Faculty/Staff. While it is an informal publication, this bulletin, like all student publications, is expected to observe the guidelines for student publications.

### **Student Publications Guidelines**

Student publications guidelines at Sandhills Community College are expected to represent the student body at its best. The content of such publications must be in concert with the college Student Code of Conduct. Specifically, all contributors to such publications are bound by the elements of this code:

- Writing that communicates a true threat to an individual or group is prohibited.
- Writing that communicates *harassment* that rises to the level of severe or pervasive is prohibited.
- Writing that involves libelous charges is prohibited.
- Writing that makes use of obscene language and/or expletives is prohibited.

Because this is an educational institution, writing that appears in student created publications is expected to be clear, correct, and well-reasoned. Documents should be well-designed and inviting to the reader.

All materials for student publications must be approved prior to publication by the Director of Student Life. Any disputes about content may be taken to the Vice President of Student Services for resolution in concert with the Director of Student Life, the SGA President, and the student-writer. There is an inherent right to appeal. The appeal shall be in accordance with the Student Grievance Procedure.

### **Photo and Video Use**

Sandhills Community College does not collect photo/video release forms. Instead, the College assumes that faculty, staff, students and those visiting our campus are the best resources for marketing the College and are willing to participate in College promotions.

All photographic/video images become the property of Sandhills Community College. Marketing and Public Relations staff members will add the photos or video footage to the College's library of images (maintained by Marketing & Public Relations), which becomes a resource for the College's online and print publications. These images and videos may be used for years after obtaining. The College reserves the right to release images for use by outside agencies

for publication by news outlets, magazines, and digital outlets as the College sees fit.

In addition to print use, images may be posted to the college's social media outlets (Facebook, Twitter, Instagram and others).

Still or video photo shoots may be informal (candid photos of campus scenes, athletic events, performances, events, or activities) or formal (planned visits to classrooms, headshots or photo/video shoots on campus).

Students participating in a formal photo shoot (flightPath magazine, billboards, viewbooks, etc.) are giving their permission for their image to be used. Students may opt out of a photo. If a student does not wish to be photographed, but fails to identify himself or herself to the photographer, it will be very difficult to exclude that person from the resulting images.

Concerns about the uses of individual images may be communicated to the Marketing & Public Relations Department, which will try to resolve individual complaints while still meeting the institutional goals of visually representing the College. Expense is sometimes a consideration in the ability to change a photograph; usually an inventory of printed publications must be exhausted before the change can be implemented.

### **Supervisory Role of the Institution over Student Activities**

While Sandhills Community College takes very seriously its commitment to creating an atmosphere that encourages maximum student self-governance and a range of stimulating activities, the College is also mindful of its responsibility to oversee student life in a responsible and proactive fashion. The supervision of student activities is a function of the Division of Student Services. The Vice President of Student Services charges the Director of Student Life to direct student activities and serve as advisor to the Student Government Association (SGA). The Advisor attends all SGA meetings and sponsored activities and serves as a liaison between the SGA and the Vice President of Student Services. A description of the supervisory role of the SGA Advisor over the SGA and student activities is found in the *Student Government Association Constitution and Bylaws*.

The SGA is the official sanctioning body for all campus clubs and organizations. The *SGA Constitution and Bylaws* notifies students of their responsibility in initiating and participating in a student club or organization, which must be recognized as such in order to be permitted to use college facilities. Each club or organization has a full-time faculty or staff member who serves as advisor and meets regularly with the group. Additional information may be found in the *Student Club and Advisor Handbook* which may be obtained through the Director of Student Life.

Student activities at Sandhills Community College are evaluated regularly through student surveys and Campus Labs/Engage student participation data. Results provide insight into student needs, interests, satisfaction, and level of participation. These insights are used in determining and planning appropriate student activities.

## Student Fundraisers

All student fundraiser events must be approved by the Director of Student Life prior to the event. Proper scheduling will help prevent the possibility of two events occurring on the same day. Activities on campus, including requests for donations or funds, must be submitted in writing using the *Club Fundraiser Form* via Engage (<http://sandhills.campuslabs.com/engage/>). Before approval is given for soliciting prizes, funds, or donations from the public, the Director of Student Life will consult the Sandhills Community College Institutional Advancement Office to ensure the activity relates directly to the purpose of the College and does not conflict with other fundraising activities or plans (More information is available under “Fundraising Procedure” in the *Policies and Procedures Manual*.)

## Student Life

There is something special for everyone at SCC. Sandhills Community College sponsors a wide variety of organizations and clubs designed to enhance the educational opportunities available to our students. If you do not see a club that interests you and would like to know more about starting a new club on campus, contact our Director of Student Life at [wards@sandhills.edu](mailto:wards@sandhills.edu) or 910-695-3858.

## ACES (Association for Architecture, Construction, Engineering and Surveying)

Contact: Ed Spitler, Little 167, 695-3797, [spitlere@sandhills.edu](mailto:spitlere@sandhills.edu)



The Association for Architecture, Construction, Engineering and Surveying, otherwise known as the ACES Club, provides students with knowledge of these and related fields outside of the classroom. Each year, the ACES members participate in the Experience Engineering Project, through which students explore exciting projects and sites related to their industries. Students have toured the Washington Nationals Baseball Stadium construction, the Freedom Tower construction, the Brooklyn Bridge, the Smithsonian Air & Space Museum, the Skyscraper Museum, the Hoover Dam, the Chunnel, the Big Dig, as well as many other interesting sites.

## Athletics

**Contact: Ryan Riggan, Stone 127B, 246-5365, [rigganr@sandhills.edu](mailto:rigganr@sandhills.edu)**



Sandhills Athletics works to support the mission and purpose of Sandhills Community College. As a member of the National Junior College Athletic Association (NJCAA), SCC athletics provide opportunities for development and competition that support the educational goals of the College. Athletics were founded to serve the individual student as well as to enrich the college environment for all students, faculty, and staff. The Athletics Department works with students to promote leadership and involvement within our community through public service outreach. The Flyers have won NJCAA regional and district titles in volleyball, men's basketball, men's and women's cross country/track and field, and men's and women's golf. The Flyers have won national titles in men's basketball and men's golf. While many of our athletes will likely continue competing at a four-year college or university, it is our purpose to inspire all student athletes to better themselves academically, socially, and physically.

## Computer Technology Club

**Contact: Paul Steel, Little 213, 695-3815, [steelp@sandhills.edu](mailto:steelp@sandhills.edu)**

The Computer Technology Club gives students the opportunity to meet others with similar interests in computer technology. The club facilitates communication, discussion and dispersion of information relating to computer applications, services and technologies. The club includes students from all areas of computer instruction offered on the campus including, but not limited to, computer programming, computer engineering, digital media, networking, and simulation and game development. Club members are encouraged, through outreach programs, to give back to the SCC campus community and the Sandhills community at large. Above all else this club is open to all who WANT to know more....

## Criminal Justice Club

**Contact: Dave Reece, Van Dusen 230, 695-3931, [reeced@sandhills.edu](mailto:reeced@sandhills.edu)**

The Criminal Justice Club is for students who have been or plan to be involved in the field of criminal justice. It promotes professional awareness and standards, a unified professional voice, high standards of conduct, fellowship, community service, and professional development. The mission of the organization includes such personal and professional goals as (1) not judging others, (2) being unified in service, (3) being professional, (4) working as a team, (5) using integrity in all efforts, (6) creating new ideas, and (7) upholding educational standards.

## CRU

**Contact: Karen Manning, Dempsey Student Center 222, 695-3995,  
manningk@sandhills.edu**

CRU is a caring community passionate about connecting people to Jesus Christ. The purpose of CRU is helping to fulfill the Great Commission in the power of the Holy Spirit by winning people to faith in Jesus Christ, building them in their faith and sending them to win and build others and helping the body of Christ to do evangelism and discipleship through a variety of creative ways.

## Fellowship of Christian Athletes

**Contact: J.P. Easterly, McKean 117, 695-3812, easterlyj@sandhills.edu**

FCA is a Christian community that is led by those who serve FCA's mission as its representatives, including all of FCA's directors, officers, employees and volunteer leaders, each of whom is an integral part of the community (and are described in this Manual as "FCA representatives"). Both of FCA's mission and the association of FCA's representatives are an exercise and an expression of FCA's Christian beliefs. The mission of the Sandhills Community College Fellowship of Christian Athletes is "to present to athletes and coaches, and all whom they influence, the challenge and adventure of receiving Jesus Christ as Savior and Lord, serving Him in their relationships and in the fellowship of the church."

## Health & Fitness Club

**Contact: Shelby Basinger, Blue 109, 246-4961, basingers@sandhills.edu**

The SCC Health & Fitness Club helps to gather individuals who appreciate fitness and living a healthy lifestyle. In this club individuals are encouraged to share their ideas and new information that will help to improve the overall health of the group and those around them. Students of all levels/abilities are encouraged and welcomed to join.

## Horticulture Club

**Contact: Hilarie Blevins, Steed 209, 695-3885, blevinsh@sandhills.edu**

One of the oldest and most renowned organizations on the SCC campus is the Sandhills Horticulture Club. The club's primary purpose is to provide a vehicle to support outside activities and competitions in which the Landscape Gardening students participate. The club hosts special events such as bedding plant sales and other creative projects to support student trips, competitions, and student career days.

## Intramurals

**Contact: Brandi Phillips, Dempsey 223, 246-2871, [phillipsb@sandhills.edu](mailto:phillipsb@sandhills.edu)**

The intramural sports program at Sandhills is an essential component of the Department of Student Life within the Division of Student Services. The program offers individual, dual, and team sports for male and female participation. Participation is not required, and an individual does not have to be highly skilled to participate. Intramural activities range from traditional sports such as flag football, volleyball & basketball, to non-traditional sports such as ultimate frisbee, and corn hole. Some activities are scheduled over an extended period (4 to 5 weeks) while others take place during one or two afternoon and in very few instances evenings.

## Men of Valor and Excellence (M.O.V.E.)

**Contact: Dwight Threet, Wellard 108, 695-3831, [threetd@sandhills.edu](mailto:threetd@sandhills.edu)**

M.O.V.E. is a campus organization that develops leadership in minority male students by providing services, activities and encouragement tailored to the specific needs of that population. Program participants attend retreats participate in service activities, attend personal growth workshops and spend quality time with faculty, staff and community service members. In turn, they serve as role models for others in the community.

## Musical Theatre Club

**Contact: Jennifer Thomas, Wellard 123, 695-3830, [thomasj@sandhills.edu](mailto:thomasj@sandhills.edu)**

The SCC Musical Theatre Club is an organization that provides students the opportunity to express themselves through singing, dancing, and acting. Our goals are to put on at least two productions a year – one in the fall and one in the spring. These productions may be compilations of musical scenes, acting scenes, choral arrangements, dance pieces, plays and musicals. We hope to provide the community with a myriad of creative art expressions.

## Phi Theta Kappa – Alpha Tau Beta

**Contact: Jackie Babb, Little 207, 695-3802, [babbj@sandhills.edu](mailto:babbj@sandhills.edu)  
Scott Robinson, Little 206, 695-3869, [robinsons@sandhills.edu](mailto:robinsons@sandhills.edu)**



Phi Theta Kappa is the international honor society for two-year colleges. Membership is available to students by invitation only and requires a 3.7 GPA based on 16+ hours of college credit courses (100 level or higher) in a degree-granting program. Invitees who choose to join are inducted in either spring or fall semesters. The hallmarks of Phi Theta Kappa are scholarship, leadership, fellowship, and service. Kappans serve as hosts for the college lecture series, as marshals at graduation, and as assistants with on campus activities.

## **Radiography Club**

**Contact: Robin Garner, Kennedy 158, 695-3916, garnerr@sandhills.edu**

The Radiography Technology Club is made up of students who are currently enrolled in the SCC Radiography Program. Club members host fundraisers to offset the costs associated with attendance at conferences and workshops. This organization provides opportunities for students to extend their education beyond the classroom and is of great benefit to anyone whose goal is to be a radiographer.

## **Rotaract**

**Contact: Mary Brideschge, Stone 104A, 246-4128, brideschgem@sandhill.edu**  
**Jessica Locklear, Stone 110C, 695-3856, locklearj@sandhills.edu**



Rotaract is a service organization sponsored by the Rotary Club of the Sandhills and other area Rotary Clubs. The Rotaract motto is “Service above self.” Rotaract is open to all students and inducts new members throughout the academic year. This organization meets monthly and is involved in many community service projects and provides students the chance to attend working sessions of the local Rotaract organization in order to better understand and support its mission.

## **Sandhills Association of Nursing Students**

**Contact: Kathy McNamara, Kennedy 121, 695-3843,**  
**mcnamaraka@sandhills.edu**

The Sandhills Association of Nursing Students (SANS) seeks to introduce participants to the nursing profession through their professional organization and to provide a setting for professional socialization. Active membership is available to all ADN (Associate Degree Nursing) students. SANS also promotes and encourages participation in community affairs and activities related to improving healthcare. SANS provides opportunities for state and national networking with their professional organization. Fundraisers, service projects, social events, educational programs, and mentoring and recruitment opportunities are all part of the experience available to SANS members.

## **Student Government Association**

**Contact: Shenika Ward, Dempsey 224, 695-3858, wards@sandhills.edu**

The student activities program at SCC is sponsored by the Student Government Association. Members of the SGA make a concerted effort to provide students with cultural, social, recreational, and service-oriented experiences. Activities sponsored by the SGA include free food days, national days, the annual Fall Fest and Spring Fling, holiday festivities, exam fuel

during exams, student accident insurance, and scholarships and awards. The SGA is always looking for new ideas and is the students' voice at SCC.

### **Ultimate Frisbee Club**

**Contact: Bill Pope, Van Dusen 213, 695-3864, [popew@sandhills.edu](mailto:popew@sandhills.edu)**

Played much like football and soccer combined, "Ultimate" is a transition game in which players move quickly from offense to defense on turnovers that occur with a dropped pass, an interception, a pass out of bounds, or a player caught holding the disc for more than ten seconds. Ultimate is governed by Spirit of the Game, a tradition of sportsmanship that places the responsibility for fair play on the players rather than referees.



## **STUDENT CONDUCT**

### **Student Conduct in the Instructional Environment**

Faculty teaching courses for Sandhills Community College and students taking courses at Sandhills Community College have the right to an instructional environment that is conducive to study, thought, and full concentration on study topics selected by the instructor. It is expected that students conduct themselves in a manner that does not disrupt the learning and teaching environment. The faculty and administration reserve the right to remove a student from a course or a program or to deny his or her admission to a course or a program if the student's behavior is determined to be detrimental to the teaching environment.

The Sandhills Community College faculty, staff, and administration expect student behavior that assures an instructional environment:

- where students arrive and depart on time,
- where there is no disruptive behavior,
- where the rights of others are respected and where students treat each other with politeness and respect,
- that is free from menacing or threatening language or disrespectful behavior directed at either the professor or other students,
- where a student's attire is within the generally accepted bounds of good taste and does not disrupt the learning process, and
- where students are allowed to bring guests (including children) only with the expressed permission of the professor.

Part of Sandhills Community College's responsibility is to prepare students for the world of work, where they will be expected to dress appropriately. Students at Sandhills are therefore expected to dress in a manner that reflects generally accepted standards of modesty and good taste. Faculty members have the right to establish dress standards for their classrooms, and — after appropriate counseling — to ban or remove students who do not meet those standards.

In certain educational settings, such as work-based learning, practicum courses and clinical, student grades are determined, at least in part, based on student behavior. Therefore, violation of the student code of conduct may result in a failing grade as outlined in individual program handbooks.

### **Student Code of Conduct**

Students are adults and are, of course, expected to know what constitutes "acceptable" behavior. The College prefers to emphasize counseling and

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## STUDENT CONDUCT

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guidance in promoting good student conduct. However, when this approach fails, our only option is disciplinary action. If a student has any questions concerning appropriate conduct, he/she should see a college counselor, the Dean of Instruction or Dean of Student Services (curriculum students), Vice President for Continuing Education and Workforce Development (continuing education students), or the Dean of the Hoke Center (Hoke Center/SandHoke students).

Sandhills Community College reserves the right to deny admission or readmission to students whose presence on campus is construed by the administration as harmful or potentially harmful to Sandhills Community College students, faculty, and/or staff. Moreover, Sandhills Community College may refuse to admit any applicant **during any period of time that the student is suspended or expelled from any other education entity**. Students admitted to the College must adhere to the Student Code of Conduct, which prohibits conduct that impairs significantly the welfare or the educational opportunities of others in the college community. The college may disclose educational information (which includes disciplinary information/records) with postsecondary institutions where the student seeks to enroll, intends to enroll, or is already enrolled so long as the disclosure is for purposes related to the student's enrollment or transfer. Students may request a copy of their records by contacting the Dean of Student Services.

The Student Code of Conduct has one purpose: to ensure the existence at Sandhills Community College of opportunities and conditions that are conducive to effective learning, teaching and living together. This document is the product of the cooperative thought and dialogue of students, instructors and administrators of the College.

The following Code of Conduct applies to all students enrolled in courses with Sandhills Community College. The code should not be considered an exclusive list of acceptable and unacceptable behavior.

1. Each student is held responsible for information in the college *Catalog* published online at [www.sandhills.edu](http://www.sandhills.edu).
2. Students who lose, damage, deface, destroy, sell, vandalize, or otherwise dispose of college property placed in their possession or entrusted to them will be charged for the full extent of the damage or loss and are subject to disciplinary action.
3. Under no conditions will students be in possession of alcoholic beverages, narcotics, or illicit drugs on college property or at college sponsored events on or off campus. This includes athletic events, field trips, and conferences. Students under the influence of or possessing alcohol or drugs will be in violation of this policy and subject to disciplinary action. The College will comply fully with local and state laws concerning the possession of and/or sale of

alcohol and drugs. *In addition, students might not be able to receive federal student aid if they are or have been convicted of selling or possessing illegal drugs, if the drug offense for which they are/were convicted occurred while they were receiving federal student aid. To regain eligibility, students must provide to the Dean of Student Services documentation of a minimum of six months rehabilitation and an ongoing plan to remain drug or alcohol-free.*

4. Acts such as stealing, fraud, forgery, falsifying documents, gambling, fighting, and destruction of property will not be permitted. Any violation of this regulation may result in expulsion from the College on the FIRST offense.
5. Under no condition will the possession of a dangerous weapon, including but not limited to handguns, be permitted on college property. Such acts of possession may result in expulsion from the college on the first offense.
6. The College will comply fully with existing North Carolina laws that make possession of firearms or explosives on campus a Class I Felony and ALL weapons on campus unlawful. Sandhills Community College will immediately report ANY and ALL violations to local authorities.
7. In the interest of protecting students, faculty, staff, or property from harm, the College reserves the right to take disciplinary action in response to behavior off-campus that violates college expectations and policies or could be detrimental to the College.
8. Smoking is permitted only in the following locations on the main campus: Picnic Shelter near Causey Hall; and parking lots. The use of tobacco is prohibited by students, staff, faculty, or visitors in all campus buildings at all campus locations and in any college owned vehicles. For purposes of this policy, tobacco is defined as any type of tobacco product including, but not limited to, cigarettes, cigars, cigarillos, e-cigarettes, pipes, smokeless or spit tobacco, or snuff.
9. Students are not to bring children or anyone not enrolled to class except under exceptional circumstances and with prior approval of the faculty member.
10. Pets, except for service animals, are not allowed on campus to include classrooms.
11. All vehicles must be properly registered, display appropriate stickers, and abide by posted and announced parking and traffic regulations. Violators of traffic and parking regulations are subject to fines, wheel locks, towing, or possible revocation of campus parking privileges. Student records may also be withheld until fines are paid.
12. Fiscal irresponsibility such as failure to pay college-levied fines, failure to repay college-funded loans, or the passing of worthless checks to college officials is subject to disciplinary action.

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**STUDENT CONDUCT**

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13. True threats directed at a student or faculty/staff member are prohibited. Any or all verbal, written, or physical injury from violence to oneself or others will be taken seriously.
14. Prospective students visiting campus must report to Student Services or the Continuing Education Division upon arrival. Those failing to do so may be asked to leave.
15. The Dempsey Student Center and other campus facilities are for student use and for authorized activities. Thus, unauthorized individuals may be asked to leave.
16. All curriculum students are required to have and to carry a student ID. Students may be asked to show their ID at random. Failure to comply may result in disciplinary action.
17. Language or behavior that is harassing that rises to the level of severe or pervasive is prohibited by Sandhills Community College.
18. Faculty and students at Sandhills Community College – on the main campus or off-campus locations, including online — have the right to an instructional environment that is conducive to study, thought, and full concentration on study topics. Student behavior that substantially disrupts learning and teaching activities--including unauthorized use of technology--will be subject to disciplinary actions.
19. Appropriate attire, including shoes, must be worn at all times. It is expected that attire reflect the generally accepted bounds of good taste and not disrupt the learning process.
20. Part of Sandhills Community College's responsibility is to prepare students for the world of work, where they will be expected to dress appropriately. Students at Sandhills are therefore expected to dress in a manner that reflects generally accepted standards of modesty and good taste. Faculty members have the right to establish dress standards for their classrooms, and – after appropriate counseling – to ban or remove students who do not meet those standards
21. If, in the opinion of college officials, clothing and/or behavior (including droops or the presence of gang colors, signs, and or symbols) is deemed obscene or incites an immediate breach of peace, sanctions may be imposed immediately.
22. For the safety of all concerned, the college campus is open during the following hours: Monday through Thursday, 6 a.m. to 12 a.m.; Friday, 6 a.m. to 10 p.m.; Saturday, 7 a.m. to 7 p.m.; Sunday, 7 a.m. to 5 p.m. The college is closed during holidays and times not listed above, except for special events. Students using classrooms and laboratories after scheduled class hours must obtain prior approval from the appropriate faculty/staff member.
23. Failure to abide by the SCC Information Technology Resources Acceptable Use Policy may lead to disciplinary action, including loss of computer privileges, dismissal from the College, and/or

- criminal prosecution. The college expects and requires ethical and responsible behavior of individuals using information services.
24. Providing false information or fraudulent documents to college officials or procuring any money, goods, or services under false pretense is prohibited.
  25. Rudeness and lying to school officials as well as failing to comply with instructions of college officials acting in performance of their duties are subject to disciplinary action.
  26. In the interest of civility, privacy, and safety, coed accommodations on any club, class, or SCC sponsored trip is prohibited.
  27. For the student's and public's safety, wheeled vehicles, to include but limited to mopeds, bicycles, roller skate/blades, skateboards, hoverboards, etc., are prohibited for use on sidewalks and pedestrian walk ways. Failure to comply may result in disciplinary action.
  28. Any and all other offenses that may need the attention of the Dean of Student Services or Dean of Instruction (all curriculum students), the Vice President for Continuing Education and Workforce Development (continuing education students), the Dean of the Hoke Center (all students taking classes at the Hoke Center) are subject to this code.

### **Academic Honesty**

Sandhills Community College believes that the pursuit of knowledge requires honesty. Academic dishonesty includes but is not limited to the following:

1. Copying the work of another.
2. Collaboration: Working with another person on a test, examination, or paper without expressed authorization and without indicating that collaboration has occurred.
3. Plagiarism: The representation of the work of another person as one's own; the failure to cite the source of an idea, information, or words that come from someone other than the author of the paper or the exam.
4. Use of books, notes and/or electronic devices in examinations without the explicit permission of the professor.

Penalties for academic dishonesty may include the following:

1. Zero grade on the test or assignment on which cheating occurs.
2. Failing grade of an F or FW for the course depending on the point in the semester as well as immediate dismissal from the course.

When a student is accused of academic dishonesty, the resolution of the accusation is between the professor and the student. If the solution is unsatisfactory, there is an inherent right to appeal, however, while the accusation of academic dishonesty may be appealed, the penalty may not. The appeal shall be in accordance with the Student Grievance Procedure.

### **Disciplinary Procedures**

- A. Report of offenses: Students, faculty members, staff or administrators should immediately report incidents that violate the Student Code of Conduct to the Dean of Student Services or the Dean of Instruction (all curriculum students), Vice President for Continuing Education and Workforce Development (continuing education students) or Dean of the Hoke Center (all students taking classes at the Hoke Center). When possible, the report should be documented through email or written report.
  
- B. The Vice President/Dean will confer with all parties involved and decide on one of the following options:
  - 1. To declare the case closed immediately for lack of evidence and to notify in writing the accused and the accuser.
  - 2. To refer the case to the risk assessment team for review and recommendation.
  - 3. To issue warning that repeated violation of the Code of Conduct may necessitate further disciplinary action.
  - 4. To reserve the right to deny admission or readmission to any student whose presence on campus is disruptive to other students.
  - 5. To invoke penalties. A student may be placed on probation, suspended, or expelled from the College for conduct or personal behavior that is in violation of the Student Code of Conduct. The appropriate Vice President or Dean will, in writing, identify the claimed misconduct and present a statement of any penalty imposed. There is an inherent right to appeal. The appeal shall be in accordance with the Student Grievance Procedure.
  - 6. As a general rule, the status of a student accused of a violation of these regulations should not be altered until a final determination has been made in regard to the charges. Interim suspension may be imposed, however, upon a finding by the appropriate institutional official that the continued presence of the accused on campus constitutes an immediate threat to the physical safety and well-being of the accused or any other member of the institution's community or its guests, poses a threat of destruction of property, or shows a potential for substantial disruption of classroom or other campus activities.

### **Student Grievance**

Grievance is defined as any matter of student concern or dissatisfaction within the control of the College, except for the following:

- grades, which shall be subject to the decision of the professor unless related to some type of suspected discrimination. Refer to the college's non-discrimination statement on page 2;
- attendance policies and matters of a purely academic nature, which shall be adjudicated through the Dean of Instruction;
- some matters involving allegations of sexual harassment, which are addressed elsewhere in this *Catalog* and published online at [www.sandhills.edu](http://www.sandhills.edu);
- residency classification, which shall be subject to the residency appeal process outlined by the North Carolina Community College System and the State of North Carolina; and
- Financial Aid awards and eligibility, which shall be subject to review by the Financial Aid Appeals Committee with a final ruling by the Vice President of Student Services.

### **Student Grievance Procedure**

The purpose of the Student Grievance Procedure is to assure students of Sandhills Community College that their grievances will be considered fairly, rapidly, and in a non-threatening atmosphere. This process is designed to be used by students, not their surrogates. In keeping with the college practice of addressing all grievances informally prior to resorting to formal procedures, it is assumed that prior to embarking on the formal Student Grievance Procedure, students will initially address problems and matters of concern informally with the faculty and/or staff members involved.

However, the College recognizes that not all student grievances will be satisfactorily settled on an informal basis. Therefore, this Student Grievance Procedure has been adopted and applies to all appeals of disciplinary actions, appeals regarding student records and privacy rights. Appeals based on charges of discrimination will be handled by the Title IX coordinator in Human Resources. Students should follow these procedures first in all applicable situations.

Any student electing initially to pursue a grievance outside of these procedures has thereby waived the ability to pursue his or her grievance hereunder. A complete copy of the Student Grievance Procedure may be obtained from the Dean of Student Services or Dean of Instruction.

Student grievances resulting from academic practices or learning environment activities other than disruptive student behavior should be referred to the attention of the Dean of Instruction (curriculum students), Vice President for Continuing Education and Workforce Development (continuing education students), or Dean of the Hoke Center (Hoke Center students) after the student has met with the faculty member or department chair and attempted an informal resolution of the problem. Student grievances that affect an

individual's welfare and are not directly related to academic or classroom activities of the College should be brought to the attention of the Dean of Student Services (curriculum students), Vice President for Continuing Education and Workforce Development (continuing education students), or Dean of the Hoke Center (Hoke Center students) after the student has made every effort to resolve the problem in an informal basis through conversation with the individuals involved.

### **Student Grievance Procedure Steps**

1. **Informal Resolution:** The student obtains the *Student Grievance Form* from the office of the Dean of Student Services or the Dean of Instruction. In non-academic disciplinary issues initiated by student, the informal grievance procedure begins with Section C of the *Student Grievance Form*. In academic disciplinary issues, the student must meet with the instructor and department chair in turn to seek an informal resolution. If a satisfactory informal resolution is achieved at any point, the grievance process stops. If an informal resolution is not achieved, the student grievance procedure continues to appropriate Vice President/Dean, who renders a decision within five (5) business days. The student may elect to continue the appeal in accordance with the following:
  - a. Curriculum students will proceed to Step 2 of the Student Grievance Procedure and appeal to the Student Grievance Committee.
  - b. Continuing education students may appeal within three (3) business days to the Vice President of Continuing Education and Workforce Development. A decision will be rendered in ten (10) business days. The decision of the Vice President of Continuing Education and Workforce Development is final. Exceptions to the procedure include continuing education certificate programs: BLET and NA. These students should proceed in accordance with Step 2.
2. **Student Grievance Committee Hearing:** The student submits the *Student Grievance Form* to the Student Grievance Committee Chair within three (3) business days of the Vice President's/Dean's decision. The Student Grievance Committee renders a decision within ten (10) business days. Following a discussion by the Student Grievance Committee, the student may elect to continue the appeal to Step 3. (The Student Grievance Committee may choose to discontinue a hearing if the student fails to attend two or more scheduled meetings.)
3. **President's Review:** The student submits a written request for review to the college President within three (3) business days after the Student Grievance Committee's decision. The President renders



a decision within ten (10) business days. The President's decision will be final.

### **Sexual Harassment Policy**

Sexual harassment is unacceptable behavior and a violation of the law. Language or behavior that is sexually harassing and rises to the level of severe or pervasive is prohibited in nature is prohibited by Sandhills Community College. The College prohibits any form of harassment of employees and/or students based upon age, race, sex, color, creed, handicap/disability, religion, national origin, political affiliation, gender identity, genetic information, and marital status. Students have the responsibility to bring any such incident (via written as well as verbal report) to the attention of an administrator so that the matter can be resolved informally. Curriculum students should contact the Dean of Student Services; continuing education students should contact the Vice President of Continuing Education and Workforce Development; students at the SCC Hoke Center should contact the Dean of the Hoke Center. The administrator will then contact the Title IX coordinator in the Human Resources Department. Any student who feels uncomfortable going to the Vice President/Dean should go directly to Associate Vice President of Human Resources or the Executive Vice President. Grievances regarding sexual harassment will be handled by the Title IX coordinator and Title IX investigators.

There are two categories of sexual harassment:

1. Sexual harassment in which a person in authority makes sexual demands upon another individual in exchange for favors, and
2. Sexual harassment in which a hostile or uncomfortable college environment is created by unwelcome or offensive sexual conduct.

Thus, it is important to understand that sexual harassment does not require physical contact. A hostile environment may be created by, but certainly is not limited to, the following unwelcome and offensive behaviors: repeated and unwelcome sexual advances, comments, contact, jokes, flirtations or any abuse of a sexual nature.

Students may reference information about sexual violence on the Safe at SCC website, <http://www.sandhills.edu/safety-security/what-is-sexual-assault/>.

## CAMPUS POLICE AND PUBLIC SAFETY

### Traffic Rules and Regulations

All students, faculty, and staff are required to adhere to all rules and regulations related to vehicle use on campus. The complete guide to those rules and regulations can be found on the SCC Homepage under the quick links to Security.

### Automobile Registration

All students who park vehicles on campus must register their vehicles at the time of course registration. The cost of parking stickers is included in the student fees payable at registration.

### Parking Regulations

Students are required to park in paved parking spaces that are not reserved for visitors or for faculty/staff. Reserved parking applies to vehicles 8 a.m.–3 p.m., Monday–Friday, after which time anyone may park in these spaces. This does not apply to visitor parking. A one-hour time limit applies to all visitor spaces. When paved parking spaces are filled, the College will provide designated unpaved areas for temporary student use. Restricted parking, including handicapped parking, is marked with appropriate signs.

### Parking Permit

All students are required to obtain a permit that enables them to park at the College. Students must register for the permit through the MySCC page prior to pick up in the Dempsey Center. **The permit must be affixed to the left rear bumper or displayed in the left rear window of the vehicle.** This permit will also enable staff to notify the student in the event of an emergency (e.g., **someone hits the car**). If a student temporarily drives a vehicle without a permit, he/she must obtain a temporary permit from the switchboard receptionist in Dempsey Hall. Vehicles parked on campus without permits will be in violation. Repeated violations of the campus parking regulation will be considered an offense of the Student Code of Conduct. Disabled students may receive handicapped parking permits after presenting appropriate DMV documentation to the campus switchboard receptionist. Campus parking lots have designated areas for the disabled.

### Temporary Parking

For the first few days of the fall/spring semesters, staff members may need to direct vehicles into temporary parking areas. Students should follow the instructions given during this time period.

## Parking Violations

Violations of parking regulations will result in fines and/or the vehicle's being towed. Violations that are potentially dangerous, such as speeding and reckless driving, are subject to disciplinary action in addition to any fines levied. Violations for which citations may be issued include, but are not limited to the following:

### Fines

The Business Office is hereby authorized to collect a \$25.00 fine for any of the following violations:

- Parked in visitor space
- Parked in faculty space
- Parked in student space
- Failure to display current parking decal
- Failure to register vehicle
- Improper display of parking decal

The following violations shall be considered infractions. The Business Office is hereby authorized to collect fines at the rates noted below for any of the following violations:

- Driving in a hazardous manner/speeding/careless and reckless.... \$100
- Driving wrong way in drive lanes..... \$50
- Exceeding a safe speed ..... \$25
- Failure to heed a stop or yield sign ..... \$25
- Parking incorrectly in a parking space ..... \$25
- Parked in driveway/access ..... \$50
- Parking in manner creating a hazard..... \$50
- Parking in more than one space ..... \$25
- Parked in no parking space/area ..... \$25
- Parked in unauthorized/handicap space ..... \$100
- Unsafe Movement..... \$25
- Any traffic violation (not listed) ..... \$25

The student is responsible for any violation incurred by individuals who bring the student to campus. Payments of fines should be made to cashier in Stone Hall. Failure to pay parking tickets will result in the fines' being added to the student registration fees. **Persons who have received five (5) or more tickets may have the vehicle towed or may be subject to other disciplinary action.**

## Identification Card

During registration, the student will need to obtain a student ID. *An ID is required — the student must carry it at all times on campus!* ID cards issued during a student’s initial enrollment should be used during the student’s entire academic career at Sandhills Community College. This card allows students to checkout library books, use the Learning Resource Computer Lab, use college equipment, and participate in SCC activities. Financial aid recipients will be able to purchase books more easily from the Logan Bookstore using an ID card. Curriculum students may receive one card per school year at no charge. A replacement card costs \$10. A paid receipt and a valid government photo ID or passport are necessary to have an ID made. ID cards are made 8 a.m.–9 p.m. Monday–Thursday and 8 a.m.–4 p.m. Friday in the Dempsey Student Center during fall and spring semesters. Students that are enrolled for the fall semester do not need to renew their card for the spring semester. **Please note:** Online students use their assigned student ID number to gain their password-protected user account that then allows them to access campus resources and services via electronic means. Online students are encouraged to obtain an ID card upon their first visit to campus.

## Campus Crime

In accordance with the Student Right-to-Know, Campus Crime Security Act of 1990, and the Clery Act, SCC exhibits “zero tolerance” toward violence on campus, including sexual assault, aggravated assault, physical confrontations of any kind, verbal threats of intent to cause harm, harassment designed to intimidate another, hate crimes, robbery, burglary, and property crimes such as destruction, theft, and sabotage. The “Compliance” section of this *Catalog* provides more information.

## Security and Access to Campus Facilities

The college campus is open during the following hours:

- Monday through Thursday .....6 a.m. to 12 p.m.
- Friday ..... 6 a.m. to 10 p.m.
- Saturday..... 7 a.m. to 7 p.m.
- Sunday..... 7 a.m. to 5 p.m.

The college is closed during holidays and times not listed above, except for special events. Students using classrooms and laboratories after scheduled class hours must obtain prior approval from the appropriate faculty/staff member.

## Campus Law Enforcement Authority

Sandhills Community College retains its own police department. Campus police officers have full police powers on Sandhills Community College

property and all public property immediately adjacent to the college property. Campus officers are responsible for all law-enforcement-related matters on campus property to include the enforcement of applicable North Carolina criminal and traffic laws. In situations where law enforcement authority is required at satellite campuses, the James H. Garner Center for Community Education in Westmoore contacts the Moore County Sheriff's Office.

Campus police personnel work closely with local, state and federal police agencies and have direct radio communication with Moore County "911."

### **Emergency Services**

Campus police, security and maintenance employees are the primary First Responders. They respond to campus emergencies such as injury, illness, fire, and tornadoes. In the event of an emergency, students and campus visitors should follow the instructions of college officials. In addition, emergency instructions are posted throughout the campus.

### **Emergency Phones**

In case of an emergency, emergency phones, including emergency code blue boxes, are located at strategic points around campus. To use one of these phones, students should push the red emergency button and speak clearly into the telephone. During college operational hours, the call goes to Campus Police and Public Safety. When the College is closed, the call is automatically sent to "911."

### **Reporting Crimes**

Because the College operates in multiple venues, these specific instructions apply when reporting crimes.

- **Main [Moore County] Campus:** To report a crime/emergency, individuals should call 911. Sandhills Community College encourages accurate and prompt reporting of incidents.
- **Hoke Center:** During hours of operation all crimes/emergencies are to be reported to Hoke Center police Officer or the Dean of the Hoke Center (910-875-8589). After hours, individuals should contact "911."
- **James H. Garner Center for Community Education in Westmoore:** During hours of operation, all crimes/emergencies are to be reported to James H. Garner Center for Community Education in Westmoore Security or the Vice President for Continuing Education and Workforce Development (910-695-3767). After hours, individuals should call 911.
- **Off-Campus Crimes:** Students in off-campus classes should follow the same procedures outlined above for reporting crimes. Immured students are encouraged to review and follow emergency procedures

specific to their institution of residence. After College hours, individuals should call 911. Campus Police and Public Safety is to be notified of the details of the incident as soon as possible.

### **Investigation of Crime Reports**

All reasonable efforts will be made to maintain confidentiality. Upon receiving the report, an investigation into the incident will begin immediately, involving Campus Police and Public Safety, who will determine if other law enforcement authorities should be involved. The Campus Police and Public Safety Director and the Executive Vice President will determine if a campus and/or community alert should be issued in the interest of public safety.

Students who participate in campus violence will be subject to disciplinary actions up to and including expulsion (as noted in “Student Code of Conduct”). There is an inherent right to appeal.

### **Documentation of Crime Reports**

Campus Police and Public Safety will maintain a daily log documenting all crimes reported to Campus Police and Public Safety or other law enforcement agencies. The information found in this report shall be open for public knowledge within two business days, except when the release of the information is prohibited by law or would jeopardize an investigation or the victim’s confidentiality.

### **Crime Statistics**

In accordance with the Student Right-to-Know, the Campus Crime Security Act of 1990, and the Clery Act, the College is required to provide information about serious crimes on campus, as defined by the acts, which have occurred during the last three (3) calendar years. This report is updated annually to the U.S. Department of Education, in accordance with the law, in October of each year. Copies of the Campus Crime Statistics Report and Annual Security Report may be obtained by contacting the main campus switchboard (910-692-6185) or the Dean of the Hoke Center (910-875-8589). Information can also be found online at [www.sandhills.edu/security](http://www.sandhills.edu/security).

### **Sexual Assault Policy**

In accordance with the U.S. Department of Education requirements of Section 485 of the Higher Education Act (also known as the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act [20 U.S.C. Section 1092]), SCC recognizes that sexual offenses, forcible and non-forcible, are violent, demeaning crimes and will not be tolerated. SCC will support this policy and increase awareness through educational prevention seminars, special literature, and counseling. Services and resources for victims

will also be provided. The State Bureau of Investigation maintains a registry of convicted sex offenders that can be accessed online at [www.sexoffender.ncdoj.gov](http://www.sexoffender.ncdoj.gov). Students may reference information about sexual violence on the Safe at SCC website, <http://www.sandhills.edu/safety-security/what-is-sexual-assault/>.

### **Reporting Sexual Assault**

The College encourages all victims of sexual offenses to report the incident as soon as possible. The College understands the sensitive issues involved with this type of crime; therefore, the following individuals may be contacted: Campus Police and Public Safety (910-695-3831 or “0”), Vice President for Continuing Education and Workforce Development (910-695-3767), Dean of Instruction (910-695-3715), or Dean of Student Services (910-695-3714), who will also contact the Title IX coordinator in the Human Resources Department.

Individuals at the Hoke Center and James H. Garner Center for Community Education in Westmoore should follow the same procedures; however, they may feel more comfortable making the initial report to one of the following: Hoke Center Police Officer or the Dean of the Hoke Center (910-875-8589) or the Vice President for Continuing Education and Workforce Development (910-695-3767).

In an emergency or after hours, students should use the emergency telephones or the CODE BLUE devices to contact the switchboard or “911.” They should contact the designated college officials as soon as possible if assistance is needed. The College emphasizes the importance of preserving all evidence for the proof of a criminal offense.

*Options:* There are several options and resources for individuals who have been sexually assaulted. Seeking assistance does not require the victim to take further legal or disciplinary actions; it allows the victim to receive private and confidential treatment and emotional and psychological support. Students may reference information about sexual violence on the Safe at SCC website, <http://www.sandhills.edu/safety-security/what-is-sexual-assault/>.

### **Disciplinary and/or Legal Actions Related to Sexual Assault**

The process against the alleged assailant will begin immediately. An investigation will be conducted in a timely manner. All parties will be treated with confidentiality and respect. Both the accuser and the accused will be given equal opportunity to present their views of the incident. A determination will be made by the Title IX coordinator and Title IX investigators. Both parties involved will be informed of the determination or outcome and will have the right to appeal. **With the final determination, the appropriate corrective actions will be implemented.** The College reserves the right to make changes to either party’s academic situations if deemed necessary or if

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the request is a reasonable option. Disciplinary actions may include expulsion from the College. The College will retain as confidential all documentation of allegations, investigations, and determinations. *In addition, both parties must maintain the confidentiality of all aspects of the incident, disclosing no information whatsoever without the written consent of the other party.*

The college is required to inform both the accuser and accused in writing of the final results within one business day of the outcome of the investigation.

The victim has the option to report the assault to the appropriate law enforcement authority. Reporting an assault does not obligate the victim to proceed with legal prosecution. It is the victim's right to decide whether or not to continue with or to halt legal proceedings.

College personnel will assist the victim with whatever services or support is available, as appropriate.

### **Medical and Psychological Support Services**

#### **MOORE COUNTY**

FirstHealth Moore Regional Hospital .....	910-715-1000
Emergency Room .....	910-715-1111
Friend-to-Friend.....	910-947-3333
Moore County Emergency .....	911
Moore County Department of Social Services.....	910-947-2436
Moore County Health Department.....	910-947-3300
Daymark Recovery Services.....	910-295-6853
Sandhills Community College Counseling Center.....	910-695-3968

#### **HOKE COUNTY**

Cape Fear Valley Medical Center .....	910-615-4000
Daymark Recovery Service .....	910-875-8156
First Health Family Care Center .....	910-904-2350
Hoke County Department of Social Services.....	910-875-8725
Hoke County Health Department.....	910-875-3717
Hoke County Sherriff's Department .....	910-875-5111
Sandhills Community College Counseling Center.....	910-878-5804

### **Telephone Calls**

The College cannot accept incoming calls for students except in extreme emergencies. Students should let their families know that, if a genuine crisis arises, Student Services is the office to call to contact that student. The College



does not have a paging system; therefore, it is difficult to deliver messages to students. *If a student has a child in daycare or school, it is essential to have an additional contact person listed with the daycare or school in the event that the SCC student cannot be reached.*

### **Lost and Found**

The switchboard receptionist in the Dempsey Student Center keeps all items found on campus. Students should see the College Receptionist in the Dempsey Student Center if they have lost any belongings while on campus.

### **Pets on Campus**

The campus is not an appropriate place for the pets of students or for the pets of faculty/staff members. For the safety of the pets and the campus community, the College requires that pets not be on campus during regular hours of operation. In addition, pet owners should not leave unattended pets in vehicles during their time on campus. Pets, except for service animals, are not allowed in campus buildings.

### **Walking Track**

For student and public safety, the track is for walking or jogging. Wheeled vehicles — mopeds, bicycles, roller skates/blades, skateboards, hoverboards, etc. — are prohibited.

### **Smoking Policy**

Smoking is permitted only in the following locations on the main campus: Picnic Shelter near Causey Hall and parking lots. The use of tobacco is prohibited by students, staff, faculty, or visitors in all campus buildings at all campus locations, in any college-owned vehicles, or in other posted locations. For purposes of this policy, tobacco is defined as any type of tobacco product including, but not limited to, cigarettes, cigars, cigarillos, pipes, smokeless or spit tobacco, snuff, and “vaping” with e-cigarettes.

### **Inclement Weather**

Decisions to close the College for adverse weather and other emergency situations will be made by the college administration. Missed classes and assignments will be made up in accordance with the best judgment of college officials and the guidelines promulgated by the North Carolina Community College System Office.

“Colleges have an obligation to deliver the instructional services for which students pay tuition and fees. Therefore, curriculum and continuing education classes that are missed or not held for any reason — including inclement weather — should be rescheduled or the instruction should be made-up by

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some other alternative. Alternatives may include extra class sessions, extended class sessions, individual conferences, or other options approved by the college's administration. It is assumed that alternative arrangements for making-up missed class time will be made by the College." NCCCS *Numbered Memo March 8, 1996.*

When severe weather forces a departure from regular scheduling, announcements will be posted on the SCC homepage and the MySCC page. Students enrolled in eLearning and hybrid courses are also notified via the Internet course delivery system (Open LMS). Additionally, announcement will be issued by local and regional radio and television stations. Below is a list of those stations contacted by the College.

WTVD-TV (11)	Durham	WAZZ-AM 1490	Fayetteville
WRAL-TV (5)	Raleigh	WFLB-FM 96.5	Fayetteville
Carolina 14-TV (14)	Raleigh	WKML-FM 95.7	Fayetteville
WNCN-TV (17)	Raleigh	WZFX-FM 99.1	Fayetteville
WUKS-FM 107.7	Fayetteville	WIOZ-FM 102.5	Southern Pines

Students may also call the College at 910-246-2865 to hear a recorded message indicating whether the College will have a delayed opening or will be closed. The College also notifies students of inclement weather via telephone or text message through its ReGroup system.

## **INFORMATION TECHNOLOGY**

### **Information Technology Resources Acceptable Use Policy**

#### **Purpose**

To enhance its educational, cultural, and economic missions in service to the community, Sandhills Community College provides students, faculty, staff, and community members with computers, tools, instruments, and facilities that provide access to campus and global information resources. The College expects and requires ethical and responsible behavior of individuals using information resources. This policy statement identifies acceptable uses of these resources and includes circumstances in which the interests and rights of others must be protected and preserved.

These procedures apply to all Sandhills Community College students, faculty, and staff as well as members of the community who use or access college information technology resources.

#### **Definition**

The term "information technology resources" includes all computers, tools, instruments, or facilities which enable individuals to access or interact with information available through, but not limited to, the library automation system, the Internet, the World Wide Web, or local campus networks. Resources may be individually controlled or shared, stand alone, or networked. Included in this definition are classroom technologies, computing and electronic communication devices and services, modems, electronic mail, phone access, voice mail, fax transmissions, video, multimedia and hyper-media information, instructional materials, and related supporting devices or technologies.

#### **Use Agreement**

By using college-supplied information technology resources, individuals, groups, or organizations agree to abide by all policies and procedures adopted by Sandhills Community College as well as all current federal, state, and local laws. These include college policies and procedures against harassment, plagiarism, and unethical conduct; as well as local, state, and federal laws prohibiting theft, copyright infringement, insertion of malicious software into computer systems, and other unlawful intrusions.

In the event of violation of any of these policies, procedures, or laws, the college will follow established disciplinary policies, including those regulating the provision of information to law enforcement authorities. The

college shall not examine or disclose the contents of electronic files except when authorized by the owner of the information, when approved by an appropriate institutional official, or as required by law.

Because electronic information is volatile and easily reproduced, respect for the work and personal expression of others is especially critical in computer environments. Violations of authorial integrity — including invasion of privacy, unauthorized access, and trade secret and copyright violations — may be grounds for sanctions against users of information technology resources.

### **User Responsibilities**

Anyone using college information technology resources is responsible for:

1. recognizing and honoring the intellectual property rights of others, making attribution as appropriate;
2. refraining from any illegal and improper intrusions into the accounts of others or into any College information technology resources or systems;
3. taking all reasonable steps to insure the accuracy and the security of information compiled, accessed, or provided;
4. being ethical and respectful of the rights of others and of the diversity of the College community, including the rights to privacy and all other legal requirements and restrictions regarding access to and use of information; and refraining from acts that waste resources and prevent others from having broad access to College information technology resources;
5. abiding by all other applicable College policies and standards relating to information technology resources. These policies and standards include, but are not limited to software, wireless, remote access, and email.

### **Network Access**

All equipment attached to the college network, including wireless networks, must be approved by the Network Administrator except in specifically identified public access areas.

### **Establishing Procedures**

Individual organizations within the College may establish and define procedures or conditions for use of information technology resources under their control. Established procedures or conditions must be consistent with this overall policy but may provide additional detail, guidelines, or restrictions. In addition, all interactions outside the College are subject to the acceptable use policies of the outside agencies such as network access providers, telecommunications companies, or software developers.

**Please note:** College adherence to NCCCS IIPS Information Security Manual (and any subsequent revisions): the College will reference the NCCCS IIPS Information Security Manual in developing any procedures related to employee use of system access and data management. The manual is housed in the office of the Chief Information Officer and Human Resources.

## **Intellectual Property, Copyright and Fair Use**

As a public, non-profit institution, the College recognizes that its resources must be used for the express purpose of the college mission, must be allocated wisely, and must recover the cost for use of its resources. This policy supports the College's mission while it encourages and supports the intellectual property rights of the faculty, staff, and students of the College, including its facilities, equipment, and all other resources. Sandhills Community College complies with all federal and state laws governing the educational use of copyrighted material. It is the policy of Sandhills Community College to comply with the U.S. Copyright Act of 1976. All Sandhills Community College faculty, staff, and students are expected to act as responsible users of the copyrighted works of others which includes making informed decisions based on the fair use exemptions to the copyright laws.

Sandhills Community College provides an environment that supports the academic activities of the faculty, staff, and students. The College encourages the development, writing, invention, and production of intellectual property designed to improve the productivity of the College and/or to enhance the teaching/learning environment. It is the intent of the College to maintain a positive atmosphere for scholarly development.

### **Definitions**

As used in this Policy, the following words shall have the following meanings:

1. *Intellectual property:* Intellectual property is defined as intellectual and creative works that can be copyrighted or patented, such as literary, dramatic, musical and artistic works, computer software, multimedia presentations, inventions, etc. Intellectual Property includes any materials specifically created for use in a distance education course. These materials could include, but are not limited to: study guides, software, videotaped lectures, databases, lectures, transparencies, visual aids, lab manuals, syllabi, bibliographies, glossaries, tests, assignments, course documents, and other instructional materials.
2. *Copyrightable work:* Copyrightable work includes all creative work that is protectable under the copyright laws of the United States or other countries. Copyright protection is available for most literary,

musical, dramatic, and other types of creative works, including but not limited to computer software, teaching materials, multimedia works, proposals, and research reports.

3. *Significant college support*: Significant college support means the use of specialized, experimental equipment, or computer facilities; or the use of any College resource in a way that leads to an appreciable expenditure of College funds if that expenditure would not otherwise have occurred. Occasional use of office or classroom space, libraries, or general computer hardware and software will not ordinarily constitute significant use.

Please note that notwithstanding the following information and conditions; a student retains portfolio rights to works created by the student as a class assignment or as part of a pro-bono commission approved as a student project by an instructor. A pro-bono commission is work that an instructor may approve for students to undertake as a skill-building opportunity. Students may receive token payments provided by the person or group that commissions such a work.

The ownership of a copyright resulting from the development of intellectual property and any rewards or recognition attributed to the copyright or patent will be determined according to the following conditions:

### **Ownership of Intellectual Property**

1. *Ownership resides with the employee or student*: Ownership resides with the employee or student if the following criteria are met:
  - a. The work is the result of individual initiative, not requested by the college.
  - b. The work is not the product of a specific contract or assignment made as a result of employment or enrollment at the college.
  - c. The work is not prepared within the scope of the employee's job duties or the student's enrollment.
  - d. The work involves no use of significant college support including facilities, time, and/or other resources.
2. *Ownership resides with the College*: Ownership resides with the College if the following criteria apply:
  - a. The work is prepared within the scope of the employee's job duties or the student's enrollment.
  - b. The work is the product of a specific contract or assignment made in the course of the employee's employment with the college or the student's enrollment.
  - c. The development of the work involved significant college resources including the use of facilities, time, and/or other resources of the college including, but not limited to,

released time, grant funds, college personnel, salary supplement, leave with pay, equipment or other materials, or financial assistance.

- d. The college and the employee or student may enter into an agreement for an equitable arrangement for joint ownership, sharing of royalties, or reimbursement to the college for its costs and support. When it can be foreseen that commercially valuable property will be created, the college and the employee or student shall negotiate an agreement for ownership and the sharing of benefits prior to creation of the property. In all such cases, the agreement shall provide that the college will have a perpetual license to use the work without compensation to the employee or student for such use.
- e. If an employee is granted full or partial leave with pay (e.g. release time or educational leave), to write, develop, produce, or invent intellectual property, the employee and the college will share in any financial gain, and the college's share will be negotiated prior to the time the leave is taken.
- f. The College owns all rights to its logo, seal, and other related materials.
- g. The College, at its sole discretion, may release its rights of ownership in Intellectual Property. However, the College shall retain a royalty-free license to use said Intellectual Property for research and education.
- h. Notwithstanding the provisions of this policy, in the case of a work created under a grant accepted by the college, the ownership provisions of the grant shall prevail.

### **Liability Issues**

All College faculty and staff will ensure that the intellectual property created by them are original except for such materials from copyrighted sources that are reproduced with the written permission of the copyright holder; that the intellectual property in no way constitute a violation of or an infringement upon any copyright belonging to any other party; that the intellectual property will contain no information previously published or copyrighted by the faculty member unless such information is noted in the material; and that the it contains no matter which is libelous or in any way contrary to law.

### **Disciplinary Action**

Individuals are responsible and liable for their own actions in the creation, use, and distribution of intellectual property. Violations of this policy may also result in disciplinary action by the College including expulsion from the College and/or termination of employment.

## ACADEMIC POLICIES AND PROCEDURES

### Academic Advising

Upon enrollment at Sandhills, all regular students are assigned a faculty advisor to assist in course scheduling, registration, and program planning, as well as to evaluate academic progress periodically.

Classes selected by first semester students must be approved by the faculty advisor or the Student Success Center prior to registration. After the first semester, students may register in WebAdvisor but are encouraged to consult with their faculty advisor. It is the intent of the advisor and the Student Success Center to place students receiving financial aid into only classes required for their program of study. Once the semester begins, the advisor or the Student Success Center must also approve registration changes, such as dropping and adding classes. Students receiving financial aid should always consult with a financial aid staff member prior to dropping or adding a class.

Although the faculty advisor will help students become familiar with degree and diploma requirements in a chosen field, each student is ultimately responsible for the proper completion of his or her academic program, for familiarity with the college *Catalog*, for maintaining the grade average required, and for meeting all other degree requirements. The advisor will advise, but the final responsibility remains that of the student. In addition, college transfer students should know the requirements of both Sandhills Community College and the transferring institution.

Students whose advisors are not available or who are designated “special” may receive advising help in the Student Success Center located in Stone Hall.

### Academic Freedom and Integrity

The faculty and staff at SCC recognize that student learning lies at the heart of all they do. To support student learning, they abide by the principles of academic freedom and integrity. Faculty and students must be free to examine all pertinent data, question assumptions, be guided by the evidence of scholarly research, and teach and study the substance of their discipline. Instructors are afforded the freedom to manage the learning environment of their courses. At the same time, students will be afforded a quality educational experience where learning is encouraged, evaluations are substantive and meaningful, and grades are awarded fairly.

### College General Education Requirements

Sandhills Community College faculty has identified four primary goals of general education: social and personal responsibility, communication, critical



thinking, and technology literacy. For each of these four goals, competencies have been developed to assess student attainment. Course-embedded assessments are used to measure the four competencies in the appropriate general education courses. The general education courses used for assessment are selected from various disciplines (humanities, science, mathematics, etc.) to capture a variety of ways to assess each of the core general education goals. Standard rubrics are used to assess student attainment of competencies.

### **Social and Personal Responsibility**

Social and Personal Responsibility is the ability to analyze similarities and differences in human experiences and perspectives, exhibit a greater awareness of ethical and social concerns, and demonstrate respect for self and others.

*Demonstrated competencies:*

- Students will demonstrate respect for self and others by working in groups.
- Students will analyze ethical or social concerns.

### **Communication**

Communication is the ability to apply college-level language skills individually and collaboratively to discover, organize, and convey information, ideas, and arguments in a manner appropriate to audience and purpose.

*Demonstrated competencies:*

- Students will demonstrate college-level language skills.
- Students will create a summary of information using discipline-specific material.

### **Critical Thinking**

Critical Thinking is the ability to use appropriate inquiry to reach a reasoned conclusion.

*Demonstrated competencies:*

- Students will demonstrate analytical reasoning abilities by drawing inferences.
- Students will use evidence, logic, and organization to defend a position.

## **Technology Literacy**

Technology Literacy is the ability to use appropriate technology, communications tools, and/or networks to access, manage, integrate, evaluate, and/or create information.

*Demonstrated competencies:*

- Students will use technology to integrate information into a final product.

General education outcomes assessment results will be reported in the aggregate because the results represent the college and not individual students or faculty. In addition, assessment results will be shared with faculty, staff, and students. The assessment results are to be regularly and systematically considered by the faculty, staff, and administrators in order to take action to improve student learning. General education assessment tools (tasks and scoring rubrics) and the process will be reviewed every three years to improve process validity and efficiency.

## **Alternative Methods for Achieving Course Credit**

### **Credit by Examination**

Students enrolled in Sandhills Community College may have developed knowledge and skills that match the knowledge and skills to be achieved in certain courses in the College. These achievements may be the result of work experience, military experience, or informal study.

To receive credit by examination, students must demonstrate proficiency by taking challenge examinations developed by departmental faculty or a standardized examination such as the College Level Examination Program (CLEP) or the United States Armed Forces Institute (USAFI).

Although any faculty advisor or counselor may initiate a credit by examination request, the specific courses to which credit by examination applies will be determined by the instructional departments. Students who seek consideration for credit by examination must obtain permission from the chairperson of the department in which the course is offered. Where applicable, the chairperson will arrange for the examination to be administered. The Dean of Instruction must approve all credit awarded by challenge examination.

Students who wish to receive credit by examination through CLEP or USAFI should submit such certifications to the Director of Records and Registration. The Office of Records and Registration will evaluate the certifications in consultation with the appropriate department chairperson.

Upon the student's successful completion of credit by examination, the symbol "CE" will be shown on academic transcripts, and credit hours will be awarded; however, no quality points will be assigned. Students should note that, typically, credit by examination hours do not transfer.

### **ACA Credit by Exam**

The College requires most incoming freshmen to take one of two freshman orientation courses: (1) ACA-115 for students pursuing the A.A.S. degree, or (2) ACA-122 for students pursuing the A.A., A.E., A.F.A., A.G.E.-Nursing and A.S. transfer degrees. Students who have earned a bachelor's degree or higher within the last five years may be eligible for the Credit by Examination for ACA 115 and should see their academic program advisor. Students who transfer in 18 or more hours from an accredited four-year college or university may be eligible for Credit by Examination for ACA-122 and should contact the Coordinator of University Studies.

### **Advanced Placement**

Students who have taken any of the following Advanced Placement courses in high school and who have made the appropriate score on the AP exam can receive credit for the courses as part of the general education courses under the Comprehensive Articulation Agreement (CAA). The AP exam must be administered by the College Board and submitted to the SCC Office of Records and Registration. The Director of Records and Registration will verify AP examination scores and record appropriate credit on the student's transcript. One exception to this policy is the AP Art Studio course. Determination of credit for AP Studio Art will be made by the appropriate department chair with approval by the Dean of Instruction. **Please note:** Students should be aware that if they receive AP course credit at Sandhills Community College but "do not complete the associate in arts or associate in science degree" before transferring to a UNC university, their AP scores will be evaluated on the "basis of the receiving institution's AP policy," according to the CAA. For the Associate in Engineering degree, AP course credits "awarded for a score of three or higher, are acceptable as part of a student's successfully completed AE degree under the AE to BSE AA."

### **Approved AP Courses**

The AP exam must be administered by the College Board. It is the responsibility of the student to contact the College Board to request that exam scores be sent to Sandhills Community College. Once received, the Director of Records and Registration will verify AP examination scores and record appropriate credit on the student's transcript.

## ACADEMIC POLICIES AND PROCEDURES

<b>AP Course</b>	<b>College Course and Required AP Exam Score</b>
Art History	ART-114 and 115 with a score of 5; ART-114 only with a score of 3 or 4
Biology	BIO-111 and 112 with a score of 5; BIO-111 only with a score of 3 or 4
Calculus AB	MAT-271 with a score of 3, 4, or 5
Calculus BC	MAT-271 and MAT-272 with a score of 3, 4, or 5
Chemistry	CHM-151 and 152 with a score of 5; CHM-151 only with a score of 3 or 4
Computer Science A or Computer Science AB	CIS-115 with a score of 3, 4, or 5
Macroeconomics	ECO-252 with a score of 3, 4, or 5
Microeconomics	ECO-251 with a score of 3, 4, or 5
English Language	ENG-111 with a score of 3, 4, or 5
English Literature	ENG-112 with a score of 3, 4, or 5
Environmental Science	BIO-140 with a score of 3, 4, or 5
French Language	FRE-211 with a score of 3, 4, or 5
French Literature	FRE-212 with a score of 3, 4, or 5
Comp Government & Politics	POL-210 with a score of 3, 4, or 5
U.S. Government & Politics	POL-120 with a score of 3, 4, or 5
Human Geography	GEO-111 with a score of 3, 4, or 5
Music Theory	MUS-114 with a score of 3, 4, or 5
Physics B	PHY-151 and 152 with a score of 5; PHY-151 only with a score of 3 or 4
Physics C	PHY-251 and 252 with a score of 5; PHY-251 only with a score of 3 or 4
Psychology	PSY-150 with a score of 3, 4, or 5
Spanish Language	SPA-211 with a score of 3, 4, or 5
Spanish Literature	SPA-212 with a score of 3, 4, or 5
Statistics	MAT-152 with a score of 3, 4, or 5
Studio Art	ART-121, ART-122, or ART-131, based upon portfolio
U.S. History	HIS-131 and HIS-132 with a score of 5; HIS-131 only with a score of 3 or 4
World History	HIS-111 and HIS-112 with a score of 5; HIS-111 only with a score of 3 or 4.

## **College Credit for High School Career and Technical Education (CTE) Courses**

Students who successfully completed high school CTE courses with a grade of B or higher in the course and a score of 93 or higher on the course post-assessment may receive credit for Sandhills Community College courses that cover the same content or skills development as identified in the *North Carolina High School to Community College Articulation Agreement*. For some college courses, students must also demonstrate mastery of course knowledge and skills by passing an examination administered by college personnel. To receive articulated credit, students must enroll in the community college within two years of their high school graduation date.

### **Credit for Experiential Learning**

Students enrolled in degree, certificate, or diploma programs that have had career experience that they believe duplicates that required for a course may apply for credit by contacting the Director of Records and Registration and requesting the form on which the students will document the career experience. The Director of Records and Registration assesses the career experience in consultation with faculty in a program and the Dean of Instruction. In some instances, that assessment includes a review of state, regional, or national certifications that verify a student's knowledge in content parallel to a course.

If these parties determine that the experience duplicates the knowledge required for a course, the faculty member will recommend credit be given for courses for which required knowledge and skills have been demonstrated. Credit will be awarded by the Director of Records and Registration upon approval by the appropriate Department Chair and the Dean of Instruction. The symbol "EL" on academic transcripts will indicate credit earned for experiential learning. Credit hours will be awarded for such credit; however, no quality points will be assigned. In determining experiential credit for coursework completed in continuing education non-credit coursework, the college references the NCCCS *Continuing Education Master Course Listing and Business and Industry Guidelines*.

The College periodically validates the evaluation process for awarding credit for experiential learning by reviewing the performance of students receiving such credit in follow-on courses or their program of study.

### **Credit for Military Training**

Sandhills Community College prides itself in being a military friendly institution. The college recognizes prior military training and is often able to award college credit based on recommendations from the American Council on Education. Students seeking credit for military experience should request

a Joint Services Transcript (JST). To find out more information on how to request a JST, please visit <https://jst.doded.mil/>, or contact our Veterans Affairs Office at 910-695-3902, or 910-695-3729. For Air Force transcripts, visit <http://www.au.af.mil/au/ccaf/transcripts.asp>. Upon receipt of the transcript, the Director of Records and Registration will evaluate the transcript and determine any applicable credit. Credit hours will be awarded for such credit; however, no quality points will be assigned.

### **Academic Petition/Course Substitution**

Students may, under unusual circumstances, petition that one course substitute for another in a curriculum program. The *Academic Petition Form* must have the approval of the faculty advisor, the Program Coordinator, the Department Chair, and the Dean of Instruction.

### **Course Prerequisite Waiver**

A student who has not completed the prerequisite or corequisite courses may satisfy those requirements by demonstrating to the subject-area department chair that he/she has the appropriate knowledge and skills required for admission to the course. The student must submit the *Prerequisite Waiver Form* to the Department Chair; if the Department Chair approves the request, the Department Chair will sign the form, register the student, and send the form to the Dean of Instruction and Vice President of Academic Affairs for approval immediately after registering the student. This process must be completed prior to prerequisite checking and the printing of class rosters.

### **Special Course Enrollment**

#### **Enrollment in Courses Unique to Concentration Programs**

Some programs in the North Carolina Community College System have “concentrations” identified, such as the Substance Abuse concentration of the Human Services Technology program. Each concentration has certain “concentration courses” identified that must be unique to the concentration. These courses are identified by a sentence in the course description that reads, “This course is a unique concentration requirement of . . .”

Students who are not enrolled in the particular concentration program may enroll in and take unique concentration courses for credit if the students are otherwise eligible to participate in the class by, for example, meeting prerequisite and corequisite requirements. Such classes may be counted as elective credits for other applied science programs. Students not enrolled in the concentration program must receive approval from the instructor of the course. The instructor will indicate approval by signing a student’s *Course Planning Form* or *Course Change Form*.

## **Independent Study**

Under unusual circumstances, a student may have a need to enroll in a course of independent study under the guidance of an instructor. A student must first substantiate the need and then secure the written approval of the instructor and advisor. Next, an Independent Study Contract must be prepared by the instructor with whom the work will be done. Finally, written approval must be obtained from the chairperson of the department in which the course is requested. The registration form should also indicate the course will be taken by independent study. The registration process cannot be initiated unless a copy of the contract accompanies the registration form. Enrollment in more than one independent study course per semester will be allowed only under exceptional circumstances.

## **Auditing Courses**

Students who do not desire credit or a grade may audit any course for which prerequisites are met. Students who wish to audit a course must complete an *Audit Permission Form* and submit the form to the Director of Records and Registration prior to the end of the drop period. Requirements for auditing will be determined by the instructor. Auditors will register and pay the same tuition and fees as students who take the course for credit. Students with a recorded audit grade for a course may repeat the course one time on an audit basis.

## **Senior Citizen Waiver**

Students at least 65 years of age may be eligible for a waiver of tuition and registration fees. Qualified students will be responsible for local fees. Classes that are waived will receive a grade of SR (senior audit) which indicates attendance only. All pre-requisites must be met, and registration for applied music and restricted program classes are not eligible. A student may utilize a senior waiver on a space available basis after final registration is complete. Eligible students should contact the Admissions Department for verification of eligibility.

## **External Instruction**

The College maintains full responsibility for the academic requirements and standards of students who participate in credit courses that require work-site experiences, such as clinical or internship courses. Each program using such courses will provide written policies and requirements to students and will maintain reporting and monitoring procedures that are consistent with program standards.

## **Course Load**

Depending on the program, the usual course load for students is 12 to 18 semester hours during fall and spring terms. The usual course load for students during any entire summer session (two five-week sessions or one ten-week session) is 6 to 12 semester hours. Registration for more than 18 hours in the fall and spring or 12 hours for the entire summer (7 semester hours for a single five-week session) must carry the approval and signature of the Advisor and the Dean of Instruction. Fall2/Spring2 and 8-week session (short session) registration is limited to 2 concurrently scheduled online course. A student may take 2 online Fall2/Spring2 courses if they are NOT enrolled in an online 8-week course. If enrolled in an online 8-week course in one or both 8-week sessions, the student may enroll in 1 Fall2/Spring2 online course. Registration for more than 2 concurrent fully online courses during short sessions must carry the approval and signature of the Advisor and the Dean of Instruction. Additionally, students are able to take additional short-session classes offered through classroom and hybrid delivery.

## **Classification of Students**

For purposes of administration, excluding financial aid, the following student classifications have been specified:

- Full-time student: The student is enrolled in 12 or more credit hours. During the summer semester, a full-time student must be enrolled with 9 or more credit hours.
- Part-time student: The student is enrolled in fewer than 12 credit hours. During the summer semester, a part-time student is enrolled in fewer than 9 credit hours.
- Freshman: The student has successfully completed 32 or fewer semester hours.
- Sophomore: The student has successfully completed more than 32 semester hours.

## **Attendance Procedures**

### **Entry into Courses**

Students must attend a seated or hybrid course (meeting in a traditional classroom setting) or must complete an assignment/activity as directed by the instructor for an online course during the first 10 percent of the semester to be considered entered into the course for academic and financial aid purposes. If a student does not meet this criterion, the student will be recorded as having never attended (NA) the course and will be ineligible for course completion and no refund will be given.



## **Attendance**

Because the College realizes that academic success is tied to regular attendance, students are expected to attend all class sessions, laboratories, and clinical experiences. A student who fails to attend two consecutive weeks worth of class is in violation of the college's attendance policy and will be dropped or withdrawn from the course. Faculty members are responsible for informing students in writing at the first class meeting of additional attendance expectations and identifying all classes, laboratories, and clinical experiences that must be attended at the scheduled times. Faculty members will inform students at the first class period if tardiness is to be computed as an absence. Absence from class must be satisfactorily explained to and/or documented for the instructor, and the student is held responsible for all work missed.

Unsatisfactory attendance may adversely affect a student's grade for the course. Any student who violates the attendance policy of the course before the 65% point of a semester (or summer session) may be required to drop the course. Any student who violates the attendance policy of the course after the 65% point of the semester (or summer session) may be required to withdraw from the course with a grade of "WP" or "FW," depending upon his or her grade in the course at the time of withdrawal. Attendance policies for online courses are detailed in the course syllabi for the individual courses. Generally, these attendance policies reflect the instructor's expectations regarding the frequency of posted interactions.

Class sessions that are missed by late-enrolling students may be counted as absences.

Sandhills Community College will excuse two days each academic year for religious observances required by the faith of a student. Students must provide a written notice to the instructor at least two weeks prior to the absence. Students are required to make up work missed due to absences.

Students will not be charged when an absence is due to participation in an activity specifically approved by the Dean of Instruction or the Dean of Student Services.

## **Schedule of Last Class Sessions**

The last four days of each semester are used to provide classes with a concluding session related to the final assessment activity the instructor has designed. Meeting times for classes during the last four days of the semester are provided in the final exam schedule which is posted on the Sandhills website at [www.sandhills.edu](http://www.sandhills.edu). The last class sessions are used for final examinations or for other activities that are designed to bring the course to a successful conclusion and meet the requisite contact hours for the course. Last class sessions must meet whether or not a final examination is to be given.

## Grading Policies and Procedures

### Grading

Grading the performance of students in course work is the responsibility of individual faculty members.

### Grade Categories for Completing a Course

Categories of institutional grades and symbols for students who have met minimum course requirements are as follows:

#### Course Completion Grade Chart

Superior	A	Superior academic performance
Good	B	Good academic performance
Average	C	Average academic performance. Students in zero-prefix courses must earn a "C" or better to enter subsequent foundation or curriculum course(s).
Passing	D	Academic performance that has met minimum course requirements and that will allow students to enter the subsequent course or courses in a series, unless a higher grade is specified in the course prerequisite. Students who make a "D" grade in a zero-prefix course may not progress to the next course. Credits for courses in which a "D" is earned do not normally transfer.
Pass	P	Proficiency (Math and English co-requisite courses only)
Pass	P1-P3	Level of Proficiency (MAT 003 and ENG 002 courses only)
Credit by Examination	CE	Credit earned by examination procedures of the College
Experiential Learning	EL	Credit earned for life experience
Transfer Credit	TR	Credit earned from courses taken at other accredited educational institutions or military education experiences in the armed services
Audit	AU	Participation as an auditor of a course
Senior Audit	SR	Participation as a senior citizen auditor with tuition waived

## Grade Categories for Not Completing a Course

Categories of institutional grades and symbols for students who have not met minimum course requirements are as follows:

### Course Non-Completion Grade Chart

Failure to Meet Course Requirements	F	Student performance judged to require repetition of the course. Students who make an “F” grade in a zero-prefix course may not progress to the next course.
Re-enroll	R	Non-punitive grade used when: <ul style="list-style-type: none"> <li>• the student fails to make at least an 85% on the Tier 1 Test. (MAT 003 courses only)</li> <li>• the student fails to make at least an 80% on the Tier 1 Test and Essay. (ENG 002 courses only)</li> </ul>
Drop	DR	Courses dropped during the first 10% of the class will not appear on the transcript. Between the 10% and 65% date, the class will be listed on the transcript as “DR.”
Withdraw Passing	WP	Used to indicate that a student currently passing a course has withdrawn or been withdrawn from a course after the 65% date of the semester.
Failing Withdraw	FW	Used to indicate that a student currently failing a course has withdrawn or been withdrawn from a course after the 65% date of the semester. FW grades may also be given prior to the 65% date in cases of violation of the student code of conduct.
Incomplete	I	Punitive grade used when the instructor determines that at least the minimum course requirements may be met by a student during the next consecutive semester without repeating the course.

### Removing Incomplete “I” Grades

1. When grades are reported, it is the responsibility of the instructor to inform the appropriate department chairperson in writing of the reasons for an “I” grade and the conditions that must be met to remove it.
2. It is the student’s responsibility to contact the instructor or department chair regarding work to be completed for the removal of the “I” grade.

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**ACADEMIC POLICIES AND PROCEDURES**


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3. When removing an “I” grade during the next consecutive semester, a student should continue working under the instructor’s direction and should not re-register for the course.
4. If a student has not removed the “I” grade by the end of the next consecutive semester, it may be necessary to re-register and re-take the course. “I” grades not removed during the allowed time may remain on the student’s record. “I” grades have the same effect as “F” grades.
5. When a student performs the work that allows the removal of the grade of “I,” it will be deleted from the transcript, and the new grade will be entered.
6. If a student receives an “I” and the instructor is not at the institution the next consecutive semester, the student should meet the requirements of the course under the supervision of the department chairperson.
7. A grade of “I” may be replaced by a grade of “F” if a student, in attempting to remove an “I,” completes the work required but averages an “F” in the course.

### **Grade Point Average**

Grade point averages are based on points assigned as follows:

<b>Grade</b>	<b>Grade Points</b>
A	4
B	3
C	2
D	1
F	0
FW	0
I	0
WP	Not computed
DR	Not computed
P	Not computed
P1 – P3	Not computed
R	Not computed

A minimum major grade point average of 2.0 is required for graduation. In addition, students enrolled in health science programs will be required to achieve a minimum overall average of “C” (or 2.0) in all required specialty and clinical courses.

In the computation of the grade point average for determining graduation eligibility, only grades for courses required for the completion of the current program of study will be computed. All other grades will remain on the student’s record but will not be computed. Grades earned in foundation

courses (indicated by numbers ranging from 002 through 098) will not be used in the computation of the grade point average for graduation, but those grades will be included in the grade point average to determine academic progress.

Students who plan to transfer to a four-year college/university should be aware that many four-year colleges/universities re-compute the grade point average based on all college-level hours that the student attempts. Students who have a cumulative grade point average of less than 2.0 may not be accepted by the University of North Carolina System institutions.

### **Course Repetition**

A student who has earned a grade of “C” or better in a course may repeat the course one time in an effort to earn a higher grade or to add to his or her mastery of course content. A student who has not earned a grade of “C” or better may repeat the course as many times as necessary in order to earn a higher grade. When a course is repeated, only the higher grade will be counted in determining the hours earned and the grade point average at Sandhills Community College.

Students planning to transfer should realize that universities do not have consistent policies regarding grade forgiveness. University admissions personnel will review the transcripts of transfer applicants and may re-compute grade point averages and could include forgiven low grades. The Comprehensive Articulation Agreement (CAA) with the University of North Carolina System requires that a student earn a grade of “C” or better in each transfer course completed.

Students with a recorded “Audit” (or grade of “AU”) for a course may repeat the course one time on an “Audit” basis. Exceptions to this must be approved by the Dean of Instruction.

### **Inter-Curricular Transfer of Credit**

When a student transfers from one curriculum program to another within the College, all courses with passing grades that are applicable to the new program will be transferred and included in the computation of the student’s grade point average.

## **Course Change Procedures**

### **Drop/Add Procedure**

Students should follow these practices when adding or dropping courses:

**Adding Courses in Fall and Spring Semester:** A student may add a course with permission of the advisor through the second day of the semester. After that point, permission of the advisor and the instructor is needed in order to add a course through the 10% census date.

**Dropping Courses:** The Last Date of Attendance is required for all course drop requests. A student may drop (DR) a course at any time during the first 65% point of the semester or summer session by completing a *Course Change Form*, obtaining the signatures of the advisor and the instructor, and filing the form with the Office of Records and Registration. A student may withdraw (WP or FW – the instructor of record makes the determination of WP or FW) from a course at any time after the 65% point of the semester by completing a *Course Change Form*, obtaining the signatures of the advisor and the instructor, and filing the form with the Office of Records and Registration.

**Please note:** Online students should consult the Student Success Center and/or the *Online Education at SCC* brochure located on the Sandhills website at [www.sandhills.edu](http://www.sandhills.edu) to initiate a drop.

**Fall and Spring Semesters:** To drop/add a class, a student must: (1) meet with the assigned advisor to complete and to sign a *Course Change Form*, (2) obtain an instructor's signature for all classes dropped/added, (3) submit this form to the Registrar's Office for approval and processing, and (4) submit the form to the Business Office.

Students should familiarize themselves with these guidelines for dropping and adding during the fall and spring semesters:

1. If a course is dropped during the first 10% of the semester, the student will not receive a grade for the class and no record of enrollment in the class will appear on the student's transcript.
2. If the student drops the course after the 10% and prior to 65% point, the class will be listed on the student's transcript with a grade of "DR." The "DR" grade will not be computed in the calculation of the student's grade point average. Instructor initiated drops during this time period, due to a violation of the student code of conduct, may result in an "FW".
3. Emergency situations that make it necessary for a student to withdraw from a course, a program, or the College may arise after the 65% point of the semester. In this case, the student may officially withdraw from the course by completing the withdrawal portion of the *Course Change Form*. This form must be signed by the instructor of the course and the student's advisor, and then submitted to the Director of Records and Registration prior to the end of the semester. If the student is passing at the time of withdrawal, the student will receive a grade of "WP" (withdraw passing). If the student is failing, the student will receive a grade of "FW" (failing withdrawal). The

“WP” grade will not be computed in the calculation of the student’s grade point average. The “FW” grade will be computed in the calculation of the student’s grade point average and will have the same effect as a grade of “F.”

**Summer Semester:** During the summer semester, the same drop/add procedure will be in effect. However, the last day to drop will vary, depending on the length of the summer semester session(s). The last day to drop and other enrollment information will be listed in the college *Catalog*.

**Adding Courses in Summer Sessions:** For “A” Session, a student may add a course with the permission of the advisor the first two days of classes. After that point, both the advisor’s and the instructor’s permission are needed in order to add a course. For “B” and “C” Sessions, a student may add a course with the permission of the advisor the first day of class. After that point, both the advisor’s and the instructor’s permission are needed in order to add a course.

### **Instructor-Initiated Drop or Withdrawal**

An instructor will drop a student if the student has failed to attend two consecutive weeks’ worth of class. Additionally, an instructor may drop or withdraw a student from a course under any of the following conditions:

- Student fails to meet the attendance policy of the course, if that policy is more restrictive than what is stated above.
- Student fails to meet the course requirements as established by the instructor including attendance, class participation, and/or completion of assignments in the classroom or in the online environment.
- Student is absent from the final exam without the instructor’s permission.
- Student violation of the student code of conduct.

### **Withdrawal from a Course, Program, or the College**

As noted above, emergency situations may arise after the no-penalty drop period (after the 65% point) whereby students must leave involuntarily. In this case, students may withdraw from the course by completing a *Course Change Form*. Students must obtain signatures from their advisor and instructor on the *Course Change Form* (drop/add form). Students withdrawing from all courses or from their last ungraded course must also obtain signatures from the business office, library, and financial aid office. This form must be completed and filed with the Office of Records and Registration and shared with the Financial Aid Office.

Students who are passing at the time of withdrawal may receive a grade of “WP.” Students who are failing at the time of withdrawal may receive a grade of “FW.”

## **Change of Major, Re-entry, and Readmission**

### **Change of Major**

Students are never “locked in” a program of study for longer than one semester. Any time a student considers making a change, the student should immediately meet with a counselor, instructor, or advisor to discuss the advantages and disadvantages of the proposed change. Students should explore all program offerings at SCC, and Career Counseling located in Blue Hall is prepared to help in that exploration.

If the advisor feels that a student is not making satisfactory progress or has reason to doubt the validity of the program placement of the student, the advisor may refer the student to the Student Success Center, located in Stone Hall, for a change of major.

If a student wishes to change from one instructional program to another, the student must complete a *Change of Major Form*. This form is available in the Student Success Center in Stone Hall. Students may change their major at any time during the academic year, but the students who are on financial aid should seek counsel from a Financial Aid official in Stone Hall.

### **Re-entry into a Program**

When a student wishes to be considered for re-entry into a program that has special placement requirements or enrollment limitations, these procedures will be followed:

1. The student should check with the Admissions Office to see if his or her application is current. If necessary, a new advisor will be assigned at that time.
2. The student should schedule an appointment with the assigned advisor to discuss re-entry into the desired program.
3. The advisor may recommend to the appropriate department chairperson that the student be permitted to re-enter the program. Such recommendation should be based upon the student’s demonstration that remedial action has been taken that would prevent a repeat of earlier failure to succeed in the program.
4. The department chairperson will have responsibility for approving a student’s re-entry into a program within that department.



5. Nursing and Health Science students should consult the department chair and/or program coordinator to review specific re-entry requirements as detailed in the program policy manual that applies.
6. Students who interrupt their program of study will be subject to the program requirements of the *Catalog* in effect at the time of their re-entry into the program.

### **Academic Forgiveness**

A student may request academic forgiveness for grades lower than a “C,” if the following conditions are met:

1. The student has not been enrolled in curriculum courses for 36 consecutive months.
2. During the previous enrollment period, the student experienced extenuating circumstances that contributed to grades lower than a “C.”

The student requesting academic forgiveness must contact the Dean of Instruction and verify conditions 1 and 2 above.

If a student is granted academic forgiveness, the following conditions apply:

1. The student’s entire academic record at Sandhills Community College will be recorded on any subsequent transcript.
2. The subsequent grade point average of a student who is granted academic forgiveness will be computed without inclusion of previous coursework in which a grade below “C” was received. However, unless the courses are completed with a better grade, this work may be included in calculations for consideration for honors.
3. A student may be granted academic forgiveness only one time.
4. This forgiveness policy is used for academic purposes only. Due to federal regulations, the Financial Aid Office is required to count all courses listed on a student’s transcript when calculating financial aid eligibility.

### **Academic Progress**

Students who enroll in curriculum programs, or who enroll as special students, are expected to maintain satisfactory academic progress.

### **Academic Warning**

The purpose of the academic warning is to notify students who are having academic difficulties that might jeopardize their reaching their education goals. Since a 2.0 GPA in a program is required for completion, students who fall below this standard in any given semester may be referred to the Dean of Instruction by the faculty advisor, program coordinator or department chair.

The purpose of the referral is for the student to seek additional advice or counseling to identify ways to improve their academic achievement.

## **Academic Progress Policy for Students Receiving Financial Aid**

### **Purpose**

All financial aid recipients are required to meet Satisfactory Academic Progress (SAP) according to Federal regulations and policies set by Sandhills Community College (SCC). The intent of these policies is to ensure that students who are receiving financial aid are making measurable progress toward completion of an approved degree, diploma, or certificate program in a reasonable period of time and within a reasonable number of credit hours attempted in their program of study.

### **Scope**

Regulations require a student's progress for financial aid purposes to be measured both quantitatively and qualitatively. In addition to a student's cumulative grade point average, students are also required to pass a percentage of all attempted coursework, and to complete their program of study within the maximum time frame established by the institution. To reasonably measure a student's academic progress for financial aid, the student's academic record will be evaluated including credit hours earned at other post-secondary institutions and transferred into the student's program of study at SCC. This requirement applies to all students who apply for financial assistance from Federal, State and Institutional Aid.

For students receiving financial aid, Satisfactory Academic Progress will be reviewed at the end of each semester of enrollment. Students who have attended SCC in the past without receiving financial aid will be evaluated for SAP based on their prior academic record, and subsequently, at the end of each semester of enrollment. Returning students are evaluated on a continuing basis from the first enrollment at Sandhills. Returning students who were previously enrolled under a Satisfactory Academic Progress Policy other than the current Satisfactory Academic Progress Policy will be required to meet the standards of the current policy upon returning. There is no requirement in the federal regulations for institutions to notify students who are not applying for or receiving Title IV, HEA aid of their eligibility under SAP.

### **Standards of Progress**

To receive financial aid, the student must maintain Satisfactory Academic Progress toward an eligible program of study. There are two standards in the

Financial Aid Office's standards of progress that students receiving financial aid must meet in order to maintain Satisfactory Academic Progress:

1. **Qualitative Standard:** The minimum **cumulative** grade point average (GPA) requirement the student must maintain to receive and/or continue receiving financial aid assistance is **2.0**. This includes all degree, diploma and certificate programs.
2. **Quantitative Standard:** 67 % Completion Rate and 150% Maximum Time Frame.

The student must maintain the minimums as listed below:

- **Completion Rate Requirement:** The student must successfully complete 67% of the cumulative credit hours attempted to meet the minimum requirement. Example: if the student attempts 59 credit hours during enrollment, the student must successfully complete 40 credit hours ( $40 \text{ hours completed} \div 59 \text{ hours attempted} = .67$  or 67%). Successful completion is defined as receiving a grade of A, B, C, D, or P (Pass).
- **Maximum Time Frame:** The maximum timeframe for a student to complete a program is 150% of the published length of the program. Example: if 75 credit hours are required to complete a degree, the student may attempt a maximum of 113 credit hours before the student exceeds his eligibility for financial aid ( $75 \text{ credit hour program} \times 150\% = 113$ ). One academic year of credit (30 credit hours) may be added for required remedial coursework. If a student is pursuing more than one program of study, maximum time frame standards of 150% will be applied toward each program for all attempted hours. If a student should need additional periods of enrollment to complete his/her program or if the student has a valid reason for pursuing an additional program of study, appeal procedures noted within this Satisfactory Academic Progress policy may be applied.

**Please note:** Both pace and maximum time frame are measured in credit hours (except for Clock Hour programs – see below), regardless of full time or part time attendance.

**If a student does not meet any ONE of the above three criteria, he/she has failed to maintain Satisfactory Academic Progress, and failure to do so will result in termination of eligibility to receive funds from federal Title IV, state, and institutional financial aid programs.**

## **Treatment of Selected Grades**

### **Withdrawals/Drops**

Credit hours in which a student receives a grade of Drop (DR) and Withdraw Passing (WP) do not affect a student's GPA; however, Failing Withdraw (FW) is calculated as 0.0 in the GPA calculation for SAP. Grades of DR, WP, and FW are included in the number of attempted hours, but do not count toward successfully completed hours. Students who withdraw may have difficulty meeting the satisfactory academic progress requirements. Courses dropped during the official add/drop period (usually the first 8 days of the semester) are not included as attempted and/or unsuccessful credits.

### **Incomplete and Failing Grades**

Credit hours in which a student receives a grade of Incomplete (I), Repeat (R), or Fail (F) are included in the number of attempted hours, but do not count toward successfully completed hours. All three grades are calculated as 0.0 in the GPA calculation for SAP. Students with incompletes may have difficulty meeting the satisfactory academic progress requirements at the time of evaluation, but may request reevaluation upon completion.

### **Transfer Credit**

Students transferring from another college will be considered making satisfactory progress at the time of initial enrollment at SCC. Grades from courses taken at other institutions are not included in the GPA calculation for SAP. Any such transfer credits will be included in the completion rate requirement as both attempted and completed credits, while a student's maximum time to receive financial aid will be reduced by the equivalent transfer of credit hours.

### **Audit and Never Attend**

Audit (AU), Never Attend (NA) or Senior Audit (SR) grades are not considered attempted course work and are not included in the grade point average or completion rate determinations. A student cannot receive financial aid for courses that he or she audits or is considered a no show (AU, NA, or SR).

### **Repeat Courses**

For financial aid purposes, all hours attempted will continue to be counted in each component of the student's academic progress.

### **Credit by Exam**

While Credit by Exam (CE) is not included in enrollment status for purposes of awarding financial aid, the attempted and completed credits are counted in each component of the quantitative standard. The grade CE has no numerical value at SCC and, therefore, does not affect the GPA.

### **Experiential Learning**

When a student earns credit for Experiential Learning (EL) which is given for career experience and military training that duplicates experience required for a course, it is not included in enrollment status for purposes of awarding financial aid; however, the attempted and completed credits are counted in each component of the quantitative standard. The grade EL has no numerical value at SCC and, therefore, does not affect the GPA.

### **Foundation Courses**

Courses taken at SCC and are numbered less than 100 are included in GPA calculations for SAP, as well as when calculating the 67% Completion Rate. One academic year of credit (30 credit hours) may be added for required foundation coursework when calculating the 150% Maximum Time Frame. Only 30 credits of foundation coursework will be included in a student's enrollment status for federal financial aid.

When calculating the cumulative GPA for foundation coursework, a P grade is the equivalent of a grade of A. An R grade is the equivalent of a grade of F and is calculated as 0.0 in the GPA calculation for SAP. Credit hours in which a student receives a grade of R are included in the number of attempted hours but do not count toward successfully completed hours.

### **Summer Session**

Credit hours attempted and earned during summer session will be included in the calculation of Satisfactory Academic Progress, just as any other enrollment period. For purposes of financial aid, full time enrollment in summer is 12 credit hours.

### **Clock Hour Programs**

Students enrolled in clock hour programs will have SAP evaluated at the end of each payment period. At the time of review, students must have successfully completed both the clock hours and weeks of instructional time required for the payment period. Maximum Time Frame is measured in cumulative clock hours required to complete the program and expressed in calendar time. (Note that a student in a clock hour program cannot receive aid for hours beyond those in the program; the maximum time frame applies to

the amount of calendar time the student takes to complete those hours.) For example, if the program is 1200 clock hours and meets 30 clock hours per week, that means the program is 40 weeks in length. 150% of 40 weeks is 60 weeks. A student may receive aid while enrolled in this program for up to 60 weeks to complete the 1200 clock hours required for graduation.

### **Complete Academic Record**

In order to measure a student's satisfactory progress toward degree, diploma, or certificate requirements, the student's total academic record at Sandhills Community College must be evaluated whether or not the student received financial aid for the entire time of enrollment. This includes, but is not limited to, courses taken through dual enrollment, the Huskins program, the Career and College Promise program, and the Sandhoke Early College program. When students complete course work for more than one major, college and financial aid academic progress standards must be met to receive student financial aid.

## **Financial Aid Eligibility Status**

### **Eligibility Status**

Satisfactory status is achieved when all the criteria explained above are met.

### **Financial Aid Warning**

Students (not currently on Warning, Suspension, or Probation) who do not have the required cumulative grade point average of 2.0 and/or have not successfully completed 67% of their attempted credit hours, will be placed on Warning for the following semester. A student on financial aid Warning may continue to receive Title IV aid for one payment period. Satisfactory progress will be monitored at the end of the semester to determine if the student has met the standards of progress and is eligible to continue to receive financial aid.

### **Financial Aid Suspension**

Students on financial aid Warning who have not attained at least a cumulative 67% completion rate and/or earned the minimum required cumulative grade point average of 2.0 will have their financial aid suspended at the conclusion of the Warning period.

### **Financial Aid Probation**

If a status of Suspension is appealed and approved, a status of Probation is assigned. This status requires students to maintain both a term GPA greater than or equal to 2.5 and a term completion rate equal to 100%. In order to

achieve a completion rate equal to 100%, a student must successfully complete each course enrolled in for the term. The pace component may also require a course by course plan toward degree completion. If a student withdraws or fails a course during the Probation term dropping the term completion rate below 100%, or does not maintain a term GPA greater than or equal to 2.5, the appeal is terminated and the student will be placed on a financial aid Suspension status.

### **Warning Near Maximum Time Frame**

Students who have attempted approximately 100% of the maximum allowable credit hours for their program of study will receive a courtesy notification status of Warning Near Maximum Time Frame. Students receiving this status will continue to receive financial aid until they reach 150% of the program of study, at which time they will have their financial aid suspended and be assigned a status of Maximum Time Frame.

### **Maximum Time Frame**

Students who have attempted the maximum allowable credit hours, 150%, of their program of study will have their financial aid suspended.

### **Notification of Financial Aid Warning, Suspension, Probation, Warning Near Maximum Time Frame, or Maximum Time Frame**

The Financial Aid Office will send correspondence to any student who is placed on financial aid Warning, Suspension, Warning Near Maximum Time Frame, or Maximum Time Frame.

### **Regaining Eligibility**

Students who attend Sandhills Community College (without federal financial aid) may regain financial aid eligibility by achieving a 67% completion rate and earning the required GPA based on hours attempted. A student may request reconsideration of eligibility for financial aid by submitting a written request to the Financial Aid Office once all requirements are met.

### **Appeal of Satisfactory Academic Progress Standards**

Students who have been disqualified from receiving financial aid may appeal to the Financial Aid Office to waive the satisfactory progress requirements only where there are extenuating circumstances. A student may submit written documentation to the Financial Aid Office by completing the Satisfactory Academic Progress Appeal Request form explaining the circumstances that have affected academic performance and what has changed that will allow him/her to make Satisfactory Academic Progress at the end of the next term

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## ACADEMIC POLICIES AND PROCEDURES

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of enrollment or within a reasonable period of time prior to program graduation. Supporting documentation, including documents previously submitted for past appeals, must be presented for each semester at SCC that the student did not successfully complete/pass all classes or the semester GPA was below 2.0. Circumstances that may be considered include death in the family, accident, illness, military deployment, or other serious personal problems that were beyond the control of the student and can be supported with proper documentation from involved third party sources.

Students who have exceeded the maximum allowable time frame to complete a program of study may also appeal. These students must explain what caused them to exceed the Maximum Time Frame allowed for their major and how many credits are required to complete it. They must provide a graduation plan completed and signed by their academic advisor that lists the courses needed to graduate and when each course will be taken. If the plan is considered reasonable, the student may receive financial aid with his or her progress being monitored for one or more semesters until the degree is completed, as long as the conditions set forth are met.

A student whose appeal is approved and is allowed to continue on Financial Aid Probation based on extenuating circumstances may receive Title IV funds for one payment period. At that point, to maintain Title IV eligibility, the student must meet SCC's SAP standards or the requirement of an established individual academic plan that will ensure that the student is able to meet SAP standards by a specific time prior to graduation.

### **Appeal Process**

A student may appeal in writing to the Financial Aid Office using the Satisfactory Academic Progress Appeal Request form explaining why satisfactory academic progress requirements were not met and what has changed that will allow him/her to make Satisfactory Academic Progress. Supporting documentation for the extenuating circumstance is required and specified according to the student's situation on the Satisfactory Academic Progress Appeal Request form. The Financial Aid Appeals Committee will review the appeal and a decision will be rendered within fifteen (15) business days. The student will be informed of the committee's appeal decision by letter.

If a student disagrees with the determination by the Financial Aid Appeals Committee, he or she may appeal their decision to the Vice President of Student Services. This appeal must be submitted in writing within five (5) business days from the date of the letter from the Financial Aid Appeals Committee. The decision of the Vice President of Student Services is final.



## **Academic Progress of Health Sciences and Nursing**

### **Academic Progress Standards for Health Science Programs**

To remain in good academic standing, health science students must satisfy the general academic progress requirements with a letter grade of C or better in all required courses of the student's program of study. All health science students must maintain an institutional GPA of 2.0 or higher.

### **Academic Progress Standards for Nursing Programs**

To remain in good academic standing, nursing students must satisfy the general academic progress requirements with a letter grade of C or better in all required courses of the student's program of study. Students who do not achieve this will not be allowed to progress and will be subject to program suspension.

### **Academic Progress Standards for Therapeutic Massage Program**

To remain in good academic standing, therapeutic massage students must satisfy the general academic progress requirements with a letter grade of C or better in all required courses of the student's program of study.

In the event that a student withdraws from the program due to academic shortfall or life circumstance, the Therapeutic Massage program follows these guidelines for readmission:

Students who receive a "C" or better in one portion of the curriculum but who fail out of or leave the program during subsequent semesters must demonstrate proficiency in completed courses in order to be given credit for the courses taken earlier.

## **Recognition of Outstanding Academic Performance**

### **President's List**

The names of students who have achieved a 4.0 grade point average (for all non-foundation courses attempted) on twelve or more semester hours of college-level work during the semester will be placed on the President's List. Foundation courses (indicated by prefix number 002-098) are not considered college-level work and will not be included in the computation of the grade point average for the President's List. The list will be published following the reporting of semester grades for the fall and spring academic semesters.

### **Dean's List**

The names of students who have achieved a grade point average of 3.5 or higher (for all non-foundation courses attempted) on twelve or more semester hours of college-level work during the semester will be placed on the Dean's List. The student can have no grade below a "C" on any college-level course. Foundation courses (indicated by prefix number 002-098) are not considered college-level work and will not be included in the computation of the grade point average for the Dean's List. The list will be published following the reporting of semester grades for the fall and spring academic semesters.

### **Honors Graduates**

Students who will receive a degree or diploma and will have earned a cumulative grade point average of 3.5 or higher in their major by the end of the semester preceding their graduation semester will be recognized during graduation exercises for having achieved one of the following honors designations, which will also be noted on their diploma:

- **Cum Laude:** Grade point average between 3.5 and 3.74.
- **Magna Cum Laude:** Grade point average between 3.75 and 3.89.
- **Summa Cum Laude:** Grade point average between 3.9 and 4.0.

Foundation courses (indicated by prefix number (002-098) are not considered college-level work and will not be included in the computation of the grade point average for honors designation.

Honors graduates must have completed at least one-half of the credit hours required for their degree or diploma at Sandhills Community College.

## **Resources for Learning and Support**

### **Disability Services**

The College strives to provide an equal educational opportunity to all applicants and encourages students with disabilities to enroll. The College makes every effort to comply with the Americans with Disabilities Act, and reasonable accommodations will be made for all who demonstrate a documented legitimate need. The campus is largely barrier-free and accessible. Faculty and staff are available to assist where feasible. Students in need of special assistance should contact the Office of Disability Services in Logan Hall at their earliest convenience to obtain an information packet, which outlines the process for getting the required documentation. The "Compliance" section of this *Catalog* provides more information.

## **eLearning Students**

In order to accommodate the needs of eLearning students, Sandhills Community College has implemented policies and procedures to protect student rights and online student privacy (SCC Procedure 4.10.2) and to provide Student and Curriculum Support Services. These procedures are available on the Sandhills website at [www.sandhills.edu](http://www.sandhills.edu) and on the MySCC page at <http://www.sandhills.edu/myscc/>.

## **Information Technology Resources**

Sandhills Community College provides up-to-date information technology resources for students, faculty, staff, and community members. There are many on-campus microcomputer laboratories that are available for use by students and community members. All of the main buildings on the campus are networked, providing access to the Internet and the administrative computer system. A wide variety of software is available for use on these computers. (More information is available in the *Information Technology Resources Acceptable Use Policy* in this *Catalog* and online at [www.sandhills.edu](http://www.sandhills.edu).)

## **Katharine L. Boyd Library**

The Katharine L. Boyd Library houses the Peter and Regina Yellin Learning Resources Center made up of the Learning Resources Computer Lab, the Barbara H. Cole Children's Literature Center, the Teresa Wood Reading Room, and the Jeanne Hastings Gallery. The library is home to the Luke Joseph Ryan Veteran's Center operated by the Student Services division.

Boyd Library also contains Boyd Room 101, a 24-seat computer classroom used predominantly by the English and Humanities Department. Boyd Library provides comfortable, pleasant surroundings for study and reading in a 26,000 square-foot building.

Faculty, staff, and students are provided an SCC ID card, which serves as the library card. Library and inter-library loan privileges are also available to Moore and Hoke County residents (and those who work in Moore and Hoke County but reside elsewhere). These individuals must be 18 years of age or older and provide a photo ID and/or proof of residence. Such privileges are granted via a community patron card. Boyd Library is open 61 hours per week and has a seating capacity of 300.

The library collection includes 70,648 print and 241 periodical holdings, instructional and entertainment multimedia 3,567 DVDs and 221 CDs, and microforms including the *New York Times* dating from 1851, as well as myriad hardbound and electronically accessible reference materials.

The library provides 7 public-access computer stations for using the online card catalog and/or community patron general use. Boyd Library provides access online at <http://www.sandhills.edu/katharine-boyd-library-sandhills-community-college-6/> to a wide variety of online research databases both directly and via NCLIVE for traditional and distance-learning students. Off campus access to research database is via the “MySCC” username and password.

### **Learning Resources Computer Lab**

The Learning Resources Computer Lab (LRCL) is located in Boyd Library. The LRCL is a staffed student computer lab with 30 computers available for course-requirements-based Internet access, word processing, computer-based tutorials, assistance with eLearning coursework, proctoring, and a wide variety of software applications.

The LRCL is restricted to use by students with valid ID's. Continuing Education/HSE students and students home on holiday from other colleges are welcome to sign in to the LRCL. The LRCL is a proctoring site and students who need those services can meet with an LRCL staff member. Students at the Hoke Center in Hoke County, including students enrolled in the SandHoke Early College High School, can access resources online or through the Learning Resources lab in Upchurch Hall, who can coordinate an audio/video reference access to librarians on the main campus.

### **Student Success Center**

The Student Success Center is available to assist students whose advisor may not be available or who have a program code of T90990 special student. The Student Success Center also assists students with pre-advising, change of majors and advisors, course withdrawal notices, audit procedures, and drop/add forms.

### **Testing**

The College administers the General Education Development (HSE) high school equivalency test, the RISE placement test for students entering college programs, and a variety of academic achievement and screening examinations requested by instructional departments. HSE testing is located in Van Dusen Hall. Those needing to take the college placement test must see the Admissions Department in Stone Hall.

### **Tutorial Services**

An organized program of free tutorial assistance is provided to supplement the instruction given in the classroom. These services are provided by students

and community volunteers. The Kelly Tutoring Center is located in Room 115 in Logan Hall.

There are also drop-in labs on campus to assist students with their course work. Students should see their instructors for information regarding these labs.

## UNIVERSITY STUDIES PROGRAMS

The University Studies Program provides opportunities for students to complete coursework that will transfer as baccalaureate credit to four-year colleges and universities. By completing courses in the Arts and Sciences, students can earn Associate in Arts (A.A.), Associate in Engineering (A.E.), Associate in Science (A.S.), or Associate in Fine Arts (A.F.A.) degrees. These degrees are designed to prepare students to continue their education as juniors in their field of study.

Sandhills actively and fully complies with the 2014 Comprehensive Articulation Agreement between the North Carolina Community College System (NCCCS) and the University of North Carolina (UNC) System. Students pursuing an A.A. or an A.S. fall under this 2014 Comprehensive Articulation Agreement. This agreement establishes college transfer courses, degrees and policies that are accepted by all 58 community colleges and all 16 UNC colleges and universities. Students who complete the A.A. or the A.S. degree requirements and are admitted to a UNC university will have certain guarantees that credits earned will transfer. These guarantees are discussed in the “degree requirements” sections that follow.

Students who do not complete all degree or general education requirements of the Comprehensive Articulation Agreement (CAA) will be able to transfer credit on a course-by-course basis and must comply with the requirements of the receiving institution. In all cases, it remains the responsibility of the student to be aware of special requirements of a particular institution or program. (Detailed information is available at [www.northcarolina.edu](http://www.northcarolina.edu).)

Students pursuing the Associate in Engineering (A.E.) degree fall under the Uniform Articulation Agreement between the University of North Carolina Baccalaureate Engineering Programs and North Carolina Community College System Associate in Engineering Programs (A.E. to B.S.E. Articulation Agreement). The A.E. degree requirements can be found in the sections that follow.

Students pursuing the Associate in Fine Arts in Music (A.F.A. in Music) degree fall under the Uniform Articulation Agreement between the University of North Carolina System Baccalaureate of Music Programs and North Carolina Community College System Associate in Fine Arts in Music Programs (A.F.A. in Music to B.M. Articulation Agreement). The A.F.A. in Music degree requirements can be found in the sections that follow.

Students pursuing the Associate in Fine Arts in Visual Arts (A.F.A.V.A.) degree fall under the Uniform Articulation Agreement between the University of North Carolina Baccalaureate of Fine Arts Programs and North Carolina Community College System Associate in Fine Arts in Visual Arts Programs

(A.F.A.V.A. to B.F.A. Articulation Agreement). The A.F.A.V.A. degree requirements can be found in the sections that follow.

Students planning to transfer should realize that universities do not have consistent policies regarding grade forgiveness. University admissions personnel will review the transcripts of transfer applicants and may re-compute grade point averages and could include forgiven low grades. The articulation agreements (CAA, A.E. to B.S.E. AA, A.F.A.V.A. to B.F.A. AA, and A.F.A. in Music to B.M. A.A) with the universities of the UNC system require that a student earns a grade of “C” or better in each transfer course completed.

**Please note:** Students planning to transfer to four-year UNC institutions must comply with the University of North Carolina Minimum Course Requirements (MCR), published at [www.northcarolina.edu](http://www.northcarolina.edu). Students who do not satisfy these requirements in high school may comply with the MCR in one of the following ways:

- They can receive an Associate in Arts or Science, Associate in Fine Arts, Bachelor of Arts or Science, or any higher degree.
- They may complete at least 6 semester hours of credit in each of the following subjects: English, mathematics, natural sciences, social and behavioral sciences, and (for students who graduate high school in or after 2004) a second language.

## Associate Degree Requirements

To be awarded an associate’s degree, a student must complete 60 to 61 semester hours of credit, which include all requirements applicable to a particular degree program. At least 25 percent of semester hours of credit must be completed at Sandhills Community College. Students must maintain a 2.0 grade point average, (2.5 grade point average for A.E.), and only courses completed with a grade of “C” or higher will qualify for transfer.

Courses required are part of the **Universal General Education Transfer Component (UGETC)**, **Additional General Education Hours**, or **Other Required Hours**.

## Universal General Education Transfer Component

The Universal General Education Transfer Component (UGETC) includes study in the areas of the humanities, fine arts, communication, social and behavioral sciences, natural sciences, mathematics, and English composition. Within the component, students receive opportunities to achieve greater competence in reading, writing, communicating, demonstrating mathematical skills, understanding science concepts, and using computers. More specifically, students foster a greater understanding of social and personal

responsibility, communication, critical thinking, and technical literacy as student learning outcomes.

These UGETC courses will satisfy universal general education transfer component requirements for the college transfer programs. The list of UGETC courses can be found in the degree requirements of each individual program. No other courses may be used as UGETC courses.

### **Additional General Education Hours**

Additional General Education Hours allow transfer students pursuing an Associate in Arts or an Associate in Science to take more general education courses based on their intended major and transfer university.

### **Other Required Hours**

Other Required Hours provide the opportunity for students pursuing an Associate in Arts or an Associate in Science to specialize and tailor their degree programs to particular interests, majors or career fields. These hours should be chosen from courses designated as pre-major, elective, or general education in the Comprehensive Articulation Agreement, and should be selected based on students' intended major and transfer university.

**Note:** Students pursuing an Associate in Engineering or an Associate in Fine Arts should consult the degree requirements of their respective degree to view the list of Additional General Education and Other Required Hours.

### **Associate in Arts Degree Requirements (A10100)**

The Associate in Arts degree is designed for students who wish to transfer to a university to earn a Bachelor of Arts (or Bachelor of Science, depending upon the university) degree in one of the following fields of study: anthropology, architecture, business administration (accounting, finance, and marketing), communication, economics, education, English language and literature, foreign languages, geography, linguistics, history, humanities, interdisciplinary studies, journalism, library science, philosophy, political science, psychology, religion, social sciences, and visual and performing arts. Students who are interested in a career in dentistry, law, medicine, theology or ministry, optometry, pharmacy, physical therapy, or veterinary medicine are usually required or at least strongly encouraged to earn a bachelor's degree before applying to one of these graduate or professional degree programs.

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 and a maximum of 61 semester hours of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic computer use.



More specifically, students foster a greater understanding of social and personal responsibility, communication, critical thinking, and technical literacy as student learning outcomes.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). To be eligible for the transfer of credits under the CAA, A.A. graduates must obtain a grade of “C” or better in all CAA courses and an overall GPA of at least 2.0 on a 4.0 scale. A.A. graduates who have earned 60 semester hours of academic credit in approved transfer courses with a grade of “C” or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 60 semester hours of academic credit upon admission to a university. A.A. transfer students are strongly encouraged to align their course work to the Baccalaureate Degree Plan (BDP) of their intended major at their intended university. Baccalaureate Degree Plans are available at [www.northcarolina.edu](http://www.northcarolina.edu). Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving universities.

*Through careful selection of courses with your advisor and/or the University Studies Coordinator, this degree can be completed as an eLearning Online Degree Program.*

## COURSES

## SEMESTER HOURS

### **UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (31-32 SHC) ..... 31-32**

The Universal General Education Component (UGETC) includes study in the areas of humanities, fine arts, communication, social and behavioral sciences, natural sciences, mathematics, and English composition.

#### **English Composition (6 SHC) .....6**

Two English composition courses are required:

ENG-111 and ENG-112

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

Select **three** courses. Those courses must be from at least **two** different disciplines areas:

Art (ART-111, 114, 115)

Communication (COM-231)

Literature (ENG-231, 232, 241, 242)

Music (MUS-110, 112)

Philosophy (PHI-215, 240)

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

Select **three** courses. Those courses must be from at least **two** different disciplines areas:

Economics (ECO-251, 252)

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History (HIS-111, 112, 131, 132)

Political Science (POL-120)

Psychology (PSY-150)

Sociology (SOC-210)

**Mathematics (3-4 SHC)..... 3-4**

Select one course from the following: MAT-143, 152, 171

**Natural Sciences (4 SHC)..... 4**

Select 4 SHC from the following:

Astronomy (AST-111 & 111A)

Biology (BIO-110, 111)

Chemistry (CHM-151)

Geology (GEL-111)

Physics (PHY-110 & 110A)

**ADDITIONAL GENERAL EDUCATION HOURS (13-14 SHC)\*..13-14**

An additional 13-14 SHC of courses should be selected from the list below. Those courses are classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. While most of these are not UGETC courses, UGETC courses may also be used in this category, if not used elsewhere.

ANT-210, 220, 221, 240

BIO-112, 120, 130, 140 and 140A

CHM-152

CIS-110, 115

COM-110, 120, 140

DRA-111, 126

ECO-151

ENG-114, 131, 261, 262

FRE-111, 112, 211, 212

GEO-111

HIS-121, 122

HUM-110, 115, 120, 122, 130, 150, 160, 161, 211, 212, 220

MAT-172, 263, 271, 272, 273

MUS-210

PHY-151, 152, 251, 252

POL-110, 210, 220

PSY-237, 239, 241, 281

REL-110, 211, 212, 221

SOC-213, 220, 225, 230, 240

SPA-111, 112, 211, 212

**TOTAL GENERAL EDUCATION HOURS REQUIRED (45 SHC).... 45**

**Note: If students have more than 45 credits in the General Education section, the extra credits can be applied to the Other Required Hours section.**

**OTHER REQUIRED HOURS (15 SHC)\* ..... 15**

**Academic Transition (1 SHC) .....1**

**The following course is required:**

ACA-122 College Transfer Success

An additional 14 SHC of courses should be selected from the list below. Those courses are classified as pre-major, elective or general education courses within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. UGETC courses and Additional General Education Hours courses may also be used in this category, if not used elsewhere.

ACC-120, 121  
 All ART Prefix Courses  
 BIO-155, 163, 165, 166, 175, 271, 275  
 BUS-110, 115, 137, 228  
 CHM-130 and 130A, 251, 252  
 CJC-111, 121, 141  
 COM-150  
 CSC-134, 139, 151, 239  
 CTS-115  
 DFT-170  
 DRA-130, 131  
 EGR-120, 150, 220, 225  
 ENG-125, 126, 273  
 HEA-112  
 HIS-151, 221, 236  
 HUM-170, 230  
 MAT-285  
 All MUS Prefix Courses  
 All PED Prefix Courses  
 PSY-231, 249, 259, 263, 271, 275  
 SOC-234, 242  
 SPA-161

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM ..... 60-61**

*\*Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.*

## Associate in Arts Course Sequence Example

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-122	College Transfer Success	0	2	1
ENG-111	Writing and Inquiry	3	0	3
***	AST, BIO, CHM, GEL, or PHY UGETC course	***	***	4
***	Hum/FA/Com UGETC course	3	0	3
***	Soc/Beh Science UGETC course	3	0	3
***	Soc/Beh Science UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	17
<b>SECOND SEMESTER (Spring)</b>				
ENG 112	Writing/Research in the Disc	3	0	3
MAT-***	Math UGETC course	***	***	3-4
***	Hum/FA/Com UGETC course	3	0	3
***	Hum/FA/Com UGETC course	3	0	3
***	Soc/Beh Science UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	15-16
<b>THIRD SEMESTER (Fall)</b>				
***	Additional Gen Ed courses or Other Required Hours courses	***	***	<u>14</u>
		***	***	14
<b>FOURTH SEMESTER (Spring)</b>				
***	Additional Gen Ed courses or Other Required Hours courses	***	***	<u>14</u>
		***	***	14
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>60</u></b>

**Please note: Students are strongly encouraged to complete their UGETC requirements during their *first two* semesters at Sandhills.**

## Associate in Engineering Degree Requirements (A10500)

The Associate in Engineering degree is designed for students who wish to transfer to a state funded university with a Bachelor of Engineering program and earn a Bachelor of Science in Engineering.

The Associate in Engineering shall be granted for a planned program of study consisting of a minimum of 60 and a maximum of 61 semester hours of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use. The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science

Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. *Admission to Engineering programs is highly competitive and admission is not guaranteed.* To be eligible for the transfer of credits under the Associate in Engineering to the Bachelor of Science in Engineering Articulation Agreement (A.E. to B.S.E. AA), A.E. graduates must obtain a grade of “C” or better in each course **and** an overall GPA of at least 2.5 on a 4.0 scale.

COURSES	SEMESTER HOURS
<b>GENERAL EDUCATION (42 SHC)*</b> .....	<b>42</b>
The general education courses includes study in the areas of English composition; humanities and fine arts; social and behavioral sciences; natural sciences and mathematics.	
<b>UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (UGETC)</b> <i>Courses that are not classified as UGETC are italicized</i>	
<b>English Composition (6 SHC)</b> .....	<b>6</b>
Two English composition courses are required: ENG-111 and ENG-112	
<b>Humanities/Fine Arts and Communication (6 SHC)</b> .....	<b>6</b>
Humanities: Choose one: Literature (ENG-231, 232, 241, 242) Philosophy (PHI-215, 240) Fine Arts and Communication: Choose one: Art (ART-111, 114, 115) Communication (COM-231) Music (MUS-110, 112)	
<b>Social/Behavioral Sciences (6 SHC)</b> .....	<b>6</b>
One course required: Economics (ECO-251) Select second course from the following: History (HIS-111, 112, 131, 132) Political Science (POL-120) Psychology (PSY-150) Sociology (SOC-210)	
<b>Mathematics (12 SHC)</b> .....	<b>12</b>
Calculus I (MAT-271) is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus-ready must take additional math courses.	

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Calculus (MAT-271, 272, 273) *Note: MAT-273 is not a UGETC course.*

**Natural Sciences (12 SHC) ..... 12**

Take all of the following:

Chemistry (CHM-151)

Physics (PHY-251, 252)

**TOTAL GENERAL EDUCATION HOURS REQUIRED (42 SHC).... 42**

**OTHER REQUIRED HOURS (18 SHC) ..... 18**

**Academic Transition (1 SHC)**

The following course is required:

ACA-122 College Transfer Success..... 1

Students must complete ACA-122 within the first 30 hours of enrollment.

**Pre-major Elective (2 SHC)**

EGR-150 Introduction to Engineering ..... 2

**Other General Education and Pre-major Elective Hours (15 SHC)..... 15**

Select 15 SHC from the following courses classified as pre-major, elective, or general education courses within the Comprehensive Articulation Agreement. Students should choose courses appropriate to the specific university and engineering major requirements.

Biology (BIO-111)

Chemistry (CHM-152)

Communication (COM-110)

Computer Science (CSC-134, 151)

Drafting (DFT-170)

Economics (ECO-252)

Engineering (EGR-220)

Humanities (HUM-110)

Mathematics (MAT-285)

Physical Education (PED-110)

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM..60-61\*\***

*\*Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.*

*\*\*One semester hour of credit may be included in a 61 SHC associate in engineering program of study. The transfer of this hour is not guaranteed.*

## Associate in Engineering Course Sequence Example

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-122	College Transfer Success	0	2	1
ENG-111	Writing and Inquiry	3	0	3
MAT-271	Calculus I	3	2	4
CHM-151	General Chemistry I	3	3	4
EGR-150	Intro to Engineering	<u>1</u>	<u>2</u>	<u>2</u>
		10	9	14
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc	3	0	3
MAT-272	Calculus II	3	2	4
ECO-251	Prin of Microeconomics	3	0	3
***	Humanities UGETC course	3	0	3
***	Other Gen Ed/Pre-major Elective	<u>***</u>	<u>***</u>	<u>2-4</u>
		***	***	15-17
<b>THIRD SEMESTER (Fall)</b>				
PHY-251	General Physics I	3	3	4
***	Soc/Beh Science UGETC course	***	***	3
***	Other Gen Ed/Pre-major Elective	***	***	3-4
***	Other Gen Ed/Pre-major Elective	***	***	3-4
***	Other Gen Ed/Pre-major Elective	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	16-19
<b>FOURTH SEMESTER (Spring)</b>				
MAT-273	Calculus III	3	2	4
PHY-252	General Physics II	3	3	4
***	Fine Arts/Com UGETC course	***	***	3
***	Other Gen Ed/Pre-major Elective	<u>***</u>	<u>***</u>	<u>4</u>
		***	***	15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>60</u></b>

## Associate in Fine Arts in Music Degree Requirements (A10700)

The Associate in Fine Arts in Music (A.F.A. in Music) degree is designed for students who wish to transfer to one of the UNC Bachelor in Music (B.M.) programs under the Associate in Fine Arts in Music to Bachelor in Music Articulation Agreement (A.F.A. in Music to B.M. AA). There are ten B.M.-granting institutions within the UNC system: Appalachian State University, East Carolina University, North Carolina Central University, UNC Chapel Hill, UNC Charlotte, UNC Greensboro, UNC Pembroke, UNC School of the Arts, UNC Wilmington, and Western Carolina University.

A.F.A. in Music graduates must meet the admission requirements and associated timelines as published by each B.M. program. In addition to meeting entrance requirements, A.F.A. in music graduates may also be

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required to audition depending on the entrance requirements of each institution. Acceptance into any B.M. program is not guaranteed. Each student must follow the admissions process of the specific receiving university.

The Associate in Fine Arts in Music degree shall be granted for a planned program of study consisting of 61 semester hours of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use. More specifically, students foster a greater understanding of social and personal responsibility, communication, critical thinking, and technical literacy as student learning outcomes.

To be eligible for the transfer of credits under the A.F.A. in Music to B. M. A.A., A.F.A. in Music graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale. Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving universities.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online format.*

<b>COURSES</b>	<b>SEMESTER HOURS</b>
<b>UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT</b>	
<b>(25 SHC)*</b> .....	<b>25</b>
The universal general education transfer component (UGETC) includes study in the areas of humanities, fine arts, communication, social and behavioral sciences, natural sciences, mathematics, and English composition.	
<b>English Composition (6 SHC)</b> .....	<b>6</b>
ENG-111 and ENG-112	
<b>Humanities/Fine Arts (6 SHC)</b> .....	<b>6</b>
Select <b>two</b> courses from the following discipline areas:	
Art (ART-111, 114, 115)	
Communication (COM-231)	
Literature (ENG-231, 232, 241, 242)	
Music (MUS-110, 112)	
Philosophy (PHI-215, 240)	
<b>Social/Behavioral Sciences (6 SHC)</b> .....	<b>6</b>
Select <b>two</b> courses. Those courses must be from <b>two</b> different discipline areas:	
Economics (ECO-251, 252)	
History (HIS-111, 112, 131, 132)	
Political Science (POL-120)	



Psychology (PSY-150)  
 Sociology (SOC-210)

**Mathematics (3 SHC).....3**  
 MAT-143 Quantitative Literacy

**Natural Sciences (4 SHC).....4**  
 Select 4 SHC from the following:  
 Astronomy (AST-111 & 111A)  
 Biology (BIO-110, 111)  
 Chemistry (CHM-151)  
 Geology (GEL-111)  
 Physics (PHY-110 & 110A)

**OTHER REQUIRED HOURS (36 SHC)\* ..... 36**

**Academic Related (1 SHC)**  
 ACA-122 College Transfer Success ..... 1

**Major Core**

*Music Theory* The following courses are required (12 SHC):

MUS-121 Music Theory I.....3  
 MUS-122 Music Theory II .....3  
 MUS-221 Music Theory III.....3  
 MUS-222 Music Theory IV.....3

*Aural Skills* The following courses are required (4 SHC):

MUS-125 Aural Skills I..... 1  
 MUS-126 Aural Skills II..... 1  
 MUS-225 Aural Skills III ..... 1  
 MUS-226 Aural Skills IV ..... 1

*Applied Music* The following courses are required (8 SHC):

MUS-161 Applied Music I .....2  
 MUS-162 Applied Music II.....2  
 MUS-261 Applied Music III.....2  
 MUS-262 Applied Music IV .....2

**Other Required Music Courses**

*Music History* The following courses are required (6 SHC):

MUS-271 Music History I.....3  
 MUS-272 Music History II.....3

*Music Sequence* Select one group from the following (3 SHC):

**Chorus:** MUS-131, MUS-132, MUS-231  
**Band:** MUS-133, MUS-134, MUS-233  
**Jazz Ensemble:** MUS-135, MUS-136, MUS-235  
**Orchestra:** MUS-137, MUS-138, MUS-237  
**Ensemble:** MUS-141, MUS-142, MUS-241

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**Class Music** The following courses are required (2 SHC):

MUS-151B Class Music I – Piano ..... 1

MUS-152B Class Music II – Piano ..... 1

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM ..... 61**

*\*Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.*

### Associate in Fine Arts in Music Course Sequence Example

		Course Hours		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-122	College Transfer Success	0	2	1
ENG-111	Writing and Inquiry	3	0	3
MUS-121	Music Theory I	3	0	3
MUS-125	Aural Skills I	0	2	1
MUS-151B	Class Music I (piano)	0	2	1
MUS-161	Applied Music I	1	2	2
MUS-***	Music Sequence (select: Chorus, Band, Jazz Ensemble, Orchestra, Ensemble)	0	2	1
***	Hum/FA/Com UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		10	10	15
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc	3	0	3
MUS-122	Music Theory II	3	0	3
MUS-126	Aural Skills II	0	2	1
MUS-152B	Class Music II (piano)	0	2	1
MUS-162	Applied Music II	1	2	2
MUS-***	Music Sequence	0	2	1
***	Hum/FA/Com UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		10	8	14
<b>THIRD SEMESTER (Fall)</b>				
MAT-143	Quantitative Literacy	2	2	3
MUS-221	Music Theory III	3	0	3
MUS-225	Aural Skills III	0	2	1
MUS-261	Applied Music III	1	2	2
MUS-271	Music History I	3	0	3
MUS-***	Music Sequence	0	2	1
***	Soc/Beh Science UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		12	8	16
<b>FOURTH SEMESTER (Spring)</b>				
MUS-222	Music Theory IV	3	0	3
MUS-226	Aural Skills IV	0	2	1
MUS-262	Applied Music IV	1	2	2
MUS-272	Music History II	3	0	3
***	Soc/Beh Science UGETC course	3	0	3

***	Natural Science UGETC course	***	***	4
		***	***	16
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>61</u></b>

## Associate in Fine Arts in Visual Arts Degree Requirements (A10600)

The Associate in Fine Arts (A.F.A.) in Visual Arts degree is designed for students who wish to transfer to one of the UNC Bachelor in Fine Arts (B.F.A.) in Visual Arts programs under the Associate in Fine Arts in Visual Arts to Bachelor in Fine Arts Articulation Agreement (A.F.A.V.A. to B.F.A. AA). There are seven B.F.A.-granting institutions within the UNC system whose focus is on the visual arts: Appalachian State University (B.F.A. in Studio Art), East Carolina University (B.F.A. in Arts), UNC Asheville (B.F.A. in Art), UNC Chapel Hill (B.F.A. in Studio Art), UNC Charlotte (B.F.A. in Art), UNC Greensboro (B.F.A. in Studio Art), and Western Carolina University (B.F.A. in Art).

A.F.A. in Visual Arts graduates must meet the portfolio submission requirements and associated timelines as published by each B.F.A. program. Admission to a visual arts program is competitive and acceptance into any B.F.A. program is not guaranteed. Each student must follow the admissions process of the specific receiving university.

The Associate in Fine Arts in Visual Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use. More specifically, students foster a great understanding of social and personal responsibility, communication, critical thinking, and technical literacy as student learning outcomes.

To be eligible for the transfer of credits under the A.F.A.V.A. to B.F.A. AA, A.F.A. in Visual Arts graduates must obtain a grade of “C” or better in each course and an overall GPA of at least 2.0 on a 4.0 scale. Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving universities.

<b>COURSES</b>	<b>SEMESTER HOURS</b>
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<b>UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (25-26 SHC)*</b> .....	<b>25-26</b>
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The universal general education transfer component (UGETC) includes study in the areas of humanities, fine arts, communication,

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social and behavioral sciences, natural sciences, mathematics, and English composition.

**English Composition (6 SHC)..... 6**  
 ENG-111 and ENG-112

**Humanities/Fine Arts (6 SHC)..... 6**

Select **two** courses. Those courses must be from **two** different discipline areas:

- Art (ART-111)
- Communication (COM-231)
- Literature (ENG-231, 232, 241, 242)
- Music (MUS-110, 112)
- Philosophy (PHI-215, 240)

**Social/Behavioral Sciences (6 SHC) ..... 6**

Select **two** courses. Those courses must be from **two** different discipline areas:

- Economics (ECO-251, 252)
- History (HIS-111, 112, 131, 132)
- Political Science (POL-120)
- Psychology (PSY-150)
- Sociology (SOC-210)

**Mathematics (3-4 SHC)..... 3-4**

Select one from the following:

- MAT-143
- MAT-152
- MAT-171

**Natural Sciences (4 SHC)..... 4**

Select 4 SHC from the following:

- Astronomy (AST-111 & 111A)
- Biology (BIO-110, 111)
- Chemistry (CHM-151)
- Geology (GEL-111)
- Physics (PHY-110 & 110A)

**OTHER REQUIRED HOURS (35 SHC) ..... 35**

**Major Core ..... 15**

- ART-114 Art History Survey I (3 SHC)
- ART-115 Art History Survey II (3 SHC)
- ART-121 Two-Dimensional Design (3 SHC)
- ART-122 Three-Dimensional Design (3 SHC)
- ART-131 Drawing I (3 SHC)

**Art Studio Electives .....18**

*Select six courses from Art Studio Electives (choose at least one from each of the three groups.)*

**Two-dimensional Electives:**

- ART-132 Drawing II (3 SHC)
- ART-135 Figure Drawing I (3 SHC)
- ART-231 Printmaking I (3 SHC)
- ART-232 Printmaking II (3 SHC)
- ART-240 Painting I (3 SHC)
- ART-241 Painting II (3 SHC)

**Three-dimensional Electives:**

- ART-281 Sculpture I (3 SHC)
- ART-283 Ceramics I (3 SHC)

**Digital Electives:**

- ART-171 Computer Art I (3 SHC)
- ART-264 Digital Photography I (3 SHC)

**Portfolio and Resume (1 SHC)**

ART-214 Portfolio and Résumé ..... 1

*Validation of the level of achievement in studio course work may be determined through portfolio review at the receiving institution.*

**Academic Transition (1 SHC)**

The following course is required:

ACA-122 College Transfer Success ..... 1

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM ..... 60-61**

*\*Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.*

**Associate in Fine Arts in Visual Arts Course Sequence Example**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-122	College Transfer Success	0	2	1
ART-121	Two-Dimensional Design	0	6	3
ART-131	Drawing I	0	6	3
ENG-111	Writing and Inquiry	3	0	3
MAT-***	Math UGETC course	***	***	3-4
***	Soc/Beh Science UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	16-17
<b>SECOND SEMESTER (Spring)</b>				
ART-122	Three-Dimensional Design	0	6	3

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ART-***	Art Studio Elective	0	6	3
ART-***	Art Studio Elective	0	6	3
ENG-112	Writing/Research in the Disc	3	0	3
***	Hum/FA/Com UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		6	18	15
<b>THIRD SEMESTER (Fall)</b>				
ART-114	Art History Survey I	3	0	3
ART-***	Art Studio Elective	0	6	3
ART-***	Art Studio Elective	0	6	3
***	Hum/FA/Com UGETC course	3	0	3
***	Natural Science UGETC course	<u>***</u>	<u>***</u>	<u>4</u>
		***	***	16
<b>FOURTH SEMESTER (Spring)</b>				
ART-115	Art History Survey II	3	0	3
ART-214	Portfolio and Resume	0	2	1
ART-***	Art Studio Elective	***	***	3
ART-***	Art Studio Elective	***	***	3
***	Soc/Beh Science UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	13
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>60</u></b>

## Associate in Science Degree Requirements (A10400)

The Associate in Science degree is designed for students who wish to transfer to a university to earn a Bachelor of Science degree in one of the following fields: architecture; agriculture; biological and life sciences; business, management, and marketing; computer and information sciences; corrections and criminal justice; engineering; engineering technologies; health professions and clinical sciences; mathematics and statistics; parks, recreation, and fitness studies; physical sciences; science education; social sciences; and transportation and materials moving. Students who are interested in a career in dentistry, law, medicine, theology or ministry, optometry, pharmacy, physical therapy, or veterinary medicine are usually required or at least strongly encouraged to earn a bachelor's degree before applying to one of these graduate or professional degree programs.

The Associate in Science degree shall be granted for a planned program of study consisting of a minimum of 60 and a maximum of 61 semester hours of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic computer use. More specifically, students foster a greater understanding of social and personal responsibility, communication, critical thinking, and technical literacy as student learning outcomes.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). To be eligible for the transfer of credits under the CAA, A.S. graduates must obtain a grade of “C” or better in all CAA courses and an overall GPA of at least 2.0 on a 4.0 scale. A.S. graduates who have earned 60 semester hours of academic credit in approved transfer courses with a grade of “C” or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 60 semester hours of academic credit upon admission to a university. A.S. transfer students are strongly encouraged to align their course work to the Baccalaureate Degree Plan (BDP) of their intended major at their intended university. Baccalaureate Degree Plans are available at [www.northcarolina.edu](http://www.northcarolina.edu). Courses may also transfer through bilateral agreements between institutions. Courses offered through bilateral agreements may not transfer to all receiving universities.

<b>COURSES</b>	<b>SEMESTER HOURS</b>
<b>UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (34 SHC)</b> .....	<b>34</b>
The Universal General Education Transfer Component (UGETC) includes study in the areas of humanities, fine arts, communication, social and behavioral sciences, natural sciences, mathematics, and English composition.	
<b>English Composition (6 SHC)</b> .....	<b>6</b>
Two English composition courses are required: ENG-111 and ENG-112	
<b>Humanities/Fine Arts (6 SHC)</b> .....	<b>6</b>
Select <b>two</b> courses. Those courses must be from <b>two</b> different discipline areas: Art (ART-111, 114, 115) Communication (COM-231) Literature (ENG-231, 232, 241, 242) Music (MUS-110, 112) Philosophy (PHI-215, 240)	
<b>Social/Behavioral Sciences (6 SHC)</b> .....	<b>6</b>
Select <b>two</b> courses. Those courses must be from <b>two</b> different discipline areas: Economics (ECO-251, 252) History (HIS-111, 112, 131, 132) Political Science (POL-120) Psychology (PSY-150) Sociology (SOC-210)	
<b>Mathematics (8 SHC)</b> .....	<b>8</b>
Select <b>two</b> courses from the following. One course must be a 200-level course: MAT-171, 172, 263, 271, 272	

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 UNIVERSITY STUDIES PROGRAM
 

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**Natural Sciences (8 SHC) ..... 8**

Select an 8 SHC two-course sequence from the following:

BIO-111 General Biology I (4 SHC) **and** BIO-112 General Biology II (4 SHC) *or*

CHM-151 General Chemistry I (4 SHC) **and** CHM-152 General Chemistry II (4 SHC) *or*

PHY-151 College Physics I (4 SHC) **and** PHY-152 College Physics II (4 SHC) *or*

PHY-251 General Physics I (4 SHC) **and** PHY-252 General Physics II (4 SHC)

**ADDITIONAL GENERAL EDUCATION HOURS (11 SHC) ..... 11**

Select an additional 11 SHC of courses from the list below. Those courses are classified as mathematics, natural sciences, or computer science general education courses from the Comprehensive Articulation Agreement. Some are UGETC courses. Students should select these courses based on their intended major and transfer university.

AST-111 and 111A

BIO-110, 111, 112, 120, 130, 140 and 140A

CHM-151, 152

CIS-110, 115

GEL-111

MAT-143, 152, 171, 172, 263, 271, 272, 273

PHY-110 and 110A, 151, 152, 251, 252

**TOTAL GENERAL EDUCATION HOURS REQUIRED (45 SHC).... 45**

**Note: If students have more than 45 credits in the General Education section, the extra credits can be applied to the Other Required Hours section.**

**OTHER REQUIRED HOURS (15 SHC)\* ..... 15****Academic Transition (1 SHC)**

The following course is required:

ACA-122 College Transfer Success..... 1

An additional 14 SHC of courses should be selected from the list below. Those courses are classified as pre-major, elective or general education courses within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. UGETC courses and Additional General Education Hours courses may also be used in this category, if not used elsewhere.

ACC-120, 121

ANT-210, 220, 221, 240



All ART Prefix Courses  
 BIO-155, 163, 165, 166, 175, 271, 275  
 BUS-110, 115, 137, 228  
 CHM-130 and 130A, 251, 252  
 CJC-111, 121, 141  
 COM-110, 120, 140, 150  
 CSC-134, 139, 151, 239  
 CTS-115  
 DFT-170  
 DRA-111, 126, 130, 131  
 ECO-151  
 EGR-120, 150, 220, 225  
 ENG-114, 125, 126, 131, 261, 262, 273  
 FRE-111, 112, 211, 212  
 GEO-111  
 HEA-112  
 HIS-121, 122, 151, 221, 236  
 HUM-110, 115, 120, 122, 130, 150, 160, 161, 170, 211, 212,  
 220, 230  
 MAT-285  
 ALL MUS Prefix Courses  
 ALL PED Prefix Courses  
 POL-110, 210, 220  
 PSY-231, 237, 239, 241, 249, 259, 263, 271, 275, 281  
 REL-110, 211, 212, 221  
 SOC-213, 220, 225, 230, 234, 240, 242  
 SPA 111, 112, 161, 211, 212

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM ..... 60-61**

*\*Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.*

**Associate in Science Course Sequence Example**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-122	College Transfer Success	0	2	1
ENG-111	Writing and Inquiry	3	0	3
MAT-***	Math UGETC course**	***	***	4
***	BIO, CHM, or PHY I UGETC course	***	***	4
***	Hum/FA/Com UGETC course	3	0	3
***	Soc/Beh Science UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	18

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 UNIVERSITY STUDIES PROGRAM
 

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**SECOND SEMESTER (Spring)**

ENG-112	Writing/Research in the Disc	3	0	3
MAT-***	Math UGETC course **	***	***	4
***	BIO, CHM, or PHY II			
	UGETC course	***	***	4
***	Hum/FA/Com UGETC course	3	0	3
***	Soc/Beh Science UGETC course	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	17

**THIRD SEMESTER (Fall)**

***	Sci/Math Gen Ed courses or Other	***	***	<u>13</u>
	Required Hours courses			
		***	***	13

**FOURTH SEMESTER (Spring)**

***	Sci/Math Gen Ed courses or Other	***	***	<u>12</u>
	Required Hours courses			
		***	***	12

**Total Required Minimum Semester Hours Credit** **60**

\*\*At least one math UGETC course must be a 200-level course.

**Note: Students are strongly encouraged to complete their UGETC requirements during their *first two semesters* at Sandhills.**

## APPLIED SCIENCE PROGRAMS

Sandhills Community College offers a variety of occupational programs designed to prepare the graduate for immediate employment. A minimum of 25 percent of the program must be completed at Sandhills Community College, with that 25 percent coming from major and other major hours, and not from general education hours, for the program of study. In some cases, graduates of Associate in Applied Science (A.A.S.) programs may wish to pursue a baccalaureate degree at a senior institution. Those considering such a course of action are encouraged to discuss the transferability of courses with their advisors. Certain A.A.S. programs offer transferable relationships with four-year institutions.

The acceleration of today's technology has led to many new programs at the college. These programs provide the training necessary to permit entry into increasingly complex and sophisticated employment in business, industry, health, and public service. The technicians and/or paraprofessionals who graduate from these programs assume key roles in our technological society.

Successful completion of a two-year technical program leads to an Associate in Applied Science degree. Each program combines a solid foundation in general education with specialized knowledge and skills.

### Applied Science Advisory Committees

In order to ensure that programs stay abreast of current employment needs, workplace requirements, and technology advances, each occupational program makes use of an advisory committee. The purpose of advisory committees is to assist and advise program coordinators and faculty members in establishing, operating, and evaluating programs so that they meet the needs of students and employees and fulfill their obligations to various accrediting agencies. The Office of the Dean of Instruction monitors and responds to advisory committee recommendations.

### Associate in Applied Science Degree Requirements

Candidates for the Associate in Applied Science degree must complete general education and major courses required for the program in which they are enrolled. Students must successfully complete a minimum of 25 percent of course credit hours of the certificate, diploma, or associate degree requirements at Sandhills Community College, with that 25 percent coming from major and other major hours, and not from general education hours, for the program of study. **Please note:** In accordance with accreditation standards, 1) All associate degree students must either place out of DMA-010 through 030 or MAT-003 or successfully complete DMA-010 through 030 or MAT-003 to demonstrate competence in fundamental mathematical skills. 2) All

graduates of associate degree programs are required to complete successfully at least one mathematic or laboratory-based quantitative science course.

### **Associate in Applied Science General Education Electives**

General Education electives for Associate in Applied Science degrees should be chosen from the list below:

<b>GENERAL EDUCATION COURSES</b>	<b>SEMESTER HOURS</b>
<b>Communication</b> .....	<b>6</b>
Select <b>two</b> courses from the following: COM-110, COM-120, COM-231, ENG-111, ENG-112, ENG-114	
<b>Humanities/Fine Arts</b> .....	<b>3</b>
Select <b>one</b> of the following:	
ART-111, 114, 115, 121, 131, 132, 171, 240, 241, 283	
DRA-111, 126	
ENG-125, 131, 231, 232, 241, 242, 261, 262, 273	
HUM-110, 115, 120, 122, 130, 150, 160, 161, 170, 211, 212, 220, 230	
MUS-110, 111, 112, 121, 122, 210	
PHI-215, 240	
REL-110, 211, 212, 221	
FRE-211	
SPA-211	
<b>Natural Sciences and Mathematics</b> .....	<b>3</b>
Select <b>one</b> of the following:	
AST-111 & 111A	
BIO-110, 111, 140 & 140A, 163, 165	
CHM-130 & 130A, 151	
GEL-111	
MAT-121, 143, 152, 171	
PHY-110, 110A	
SCI-110	
<b>Social and Behavioral Sciences</b> .....	<b>3</b>
Select <b>one</b> of the following:	
ANT-210, 220, 221, 240	
ECO-151, 251, 252	
GEO-111	
HIS-111, 112, 121, 122, 131, 132, 236	
POL-110, 120, 210, 220	
PSY-118, 141, 150, 237, 239, 241, 249, 255, 259, 263, 265, 271, 275, 281	
SOC-210, 213, 220, 225, 230, 234, 240, 242	

## Diploma Programs

One-year diploma programs have been established at the college to prepare students for entrance to or advancement in skilled occupations. To qualify for a diploma, students must successfully complete the course requirements for the diploma program in which they are enrolled. A minimum of 25 percent of the program must be completed at Sandhills Community College, with that 25 percent coming from **major and other major hours**, and not from general education hours, for the program of study. The requirements for each diploma program are listed under the name of the degree in the “Applied Science Program of Study” section of this *Catalog*.

## Certificate Programs

Many A.A.S. programs offer a certificate option for students who complete twelve to 18 hours of designated courses in the curriculum. A minimum of 25 percent of the program must be completed at Sandhills Community College. The requirements for each certificate program are listed under the name of the degree in the “Applied Science Program of Study” section of this *Catalog*.

## APPLIED SCIENCE PROGRAMS OF STUDY

### Accounting and Finance

The Accounting and Finance curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting and finance profession. Accountants and finance professionals assemble and analyze, process, and communicate essential information about financial operations.

Course work may include accounting, finance, ethics, business law, computer applications, financial planning, insurance, marketing, real estate, selling, and taxation. 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 and finance positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Accounting (A25800A)

#### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-120	Prin of Financial Accounting	3	2	4
BUS-125	Personal Finance	3	0	3
CIS-110	Introduction to Computers <i>or</i>			
OST-137	Office Applications I	2	2	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		11	6	14
<b>SECOND SEMESTER (Spring)</b>				
ACC-121	Prin of Managerial Accounting	3	2	4
ACC-149	Intro to Acc Spreadsheets	1	3	2
BUS-260	Business Communications	3	0	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
***	Natural Science/Math Elective	***	***	<u>3-5</u>
		***	***	15-17
<b>THIRD SEMESTER (Summer)</b>				
***	Humanities/Fine Arts Elective	3	0	3

SANDHILLS COMMUNITY COLLEGE

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***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b>FOURTH SEMESTER (Fall)</b>				
ACC-131	Federal Income Taxes	2	2	3
ACC-220	Intermediate Accounting I	3	2	4
BUS-115	Business Law I	3	0	3
BUS-137	Principles of Management	3	0	3
BUS-225	Business Finance	<u>2</u>	<u>2</u>	<u>3</u>
		13	6	16
<b>FIFTH SEMESTER (Spring)</b>				
ACC-140	Payroll Accounting	1	3	2
ACC-150	Accounting Software Appl	1	3	2
ACC-151	Acct Spreadsheet Appl	1	3	2
ACC-180	Practices in Bookkeeping	3	0	3
BUS-151	People Skills	3	0	3
ECO-251	Prin of Microeconomics <u>or</u>			
ECO-252	Prin of Macroeconomics	<u>3</u>	<u>0</u>	<u>3</u>
		12	9	15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>66</u></b>

### Finance (A25800F)

#### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week	Per Week	
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-120	Prin of Financial Accounting	3	2	4
BUS-125	Personal Finance	3	0	3
CIS-110	Introduction to Computers <u>or</u>			
OST-137	Office Applications I	2	2	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		11	6	14
<b>SECOND SEMESTER (Spring)</b>				
ACC-121	Prin of Managerial Accounting	3	2	4
ACC-149	Intro to Acc Spreadsheets	1	3	2
BUS-260	Business Communications	3	0	3
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
***	Natural Science/Math Elective	***	***	<u>3-5</u>
		***	***	15-17
<b>THIRD SEMESTER (Summer)</b>				
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b>FOURTH SEMESTER (Fall)</b>				
ACC-131	Federal Income Taxes	2	2	3
BAF-110	Principles of Banking	3	0	3
BUS-137	Principles of Management	3	0	3

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**APPLIED SCIENCE PROGRAMS**


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BUS-148	Survey of Real Estate	3	0	3
BUS-225	Business Finance	<u>2</u>	<u>2</u>	<u>3</u>
		13	4	15
<b>FIFTH SEMESTER (Spring)</b>				
ACC-151	Acct Spreadsheet Appl	1	3	2
BUS-115	Business Law I	3	0	3
BUS-147	Business Insurance	3	0	3
BUS-151	People Skills	3	0	3
ECO-251	Prin of Microeconomics <i>or</i>			
ECO-252	Prin of Macroeconomics	3	0	3
RLS-220	Real Estate Invest Analysis	<u>3</u>	<u>0</u>	<u>3</u>
		16	3	17
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>67</u></b>

## Bookkeeping (C25800)

### Certificate Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-120	Prin of Financial Accounting	<u>3</u>	<u>2</u>	<u>4</u>
		3	4	5
<b>SECOND SEMESTER (Spring)</b>				
ACC-121	Prin of Managerial Accounting	3	2	4
ACC-140	Payroll Accounting	1	3	2
ACC-149	Intro to Acc Spreadsheets <i>or</i>			
ACC-150	Accounting Software Appl	1	3	2
ACC-180	Practices in Bookkeeping	<u>3</u>	<u>0</u>	<u>3</u>
		8	8	11
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## Architectural Technology

**Architectural and Construction Pathway:** These programs are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.



**Architectural Technology:** A program that prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors. Includes instruction in architectural drafting, computer-assisted drafting, construction materials and methods, environmental systems, codes and standards, structural principles, cost estimation, planning, graphics, and presentation

## Architectural Technology (A40100)

### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ARC-111	Intro to Arch Technology	1	6	3
ARC-112	Constr Matls & Methods	3	2	4
BPR-130	Print Reading-Construction	3	0	3
CIS-111	Basic PC Literacy	1	2	2
EGR-110	Intro to Engineering Tech <i>or</i>			
EGR-150	Intro to Engineering	1	2	2
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		12	14	18
<b>SECOND SEMESTER (Spring)</b>				
ARC-114	Architectural CAD	1	3	2
CEG-111	Intro to GIS and GNSS	2	4	4
CST-241	Planning/Estimating I	2	2	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
MAT-121	Algebra/Trigonometry I <i>or</i>			
MAT-171	Precalculus Algebra	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	15-16
<b>THIRD SEMESTER (Summer)</b>				
EGR-251	Statics	2	2	3
SRV-110	Surveying I	2	6	4
***	Physics Elective	<u>3</u>	<u>***</u>	<u>4</u>
		7	***	11
<b>FOURTH SEMESTER (Fall)</b>				
ARC-113	Residential Arch Tech	1	6	3
SST-140	Green Bldg and Design Concepts	3	0	3
***	Humanities/Fine Arts Elective	3	0	3
***	Directed Elective	***	***	3
***	Directed Elective	<u>***</u>	<u>***</u>	<u>4</u>
		***	***	16
<b>FIFTH SEMESTER (Spring)</b>				
ARC-213	Design Project	2	6	4
ARC-230	Environmental Systems	3	3	4
***	Technical Elective	***	***	3-4

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 APPLIED SCIENCE PROGRAMS
 

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***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	14-15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>74</u></b>
<b>Physics Electives:</b>				
PHY-131	Physics-Mechanics	3	2	4
PHY-151	College Physics I	3	2	4
PHY-251	General Physics I	3	3	4
<b>Directed Electives:</b>				
CIV-111	Soils and Foundations	2	4	4
CIV-221	Steel and Timber Design	2	3	3
MAT-263	Brief Calculus	3	2	4
MAT-271	Calculus I	3	2	4
MAT-272	Calculus II	3	2	4
WBL-111	Work-Based Learning I	0	10	1
WBL-112	Work-Based Learning I	0	20	2
WBL-113	Work-Based Learning I	0	30	3
WBL-121	Work-Based Learning II	0	10	1
WBL-122	Work-Based Learning II	0	20	2
<b>Technical Electives:</b>				
ART-121	Two-Dimensional Design	0	6	3
ART-122	Three-Dimensional Design	0	6	3
CEG-212	Intro to Environmental Tech	2	3	3
CIV-222	Reinforced Concrete	2	3	3
ELC-113	Residential Wiring	2	6	4
ELC-114	Commercial Wiring	2	6	4
ELC-115	Industrial Wiring	2	6	4
ELC-117	Motors and Controls	2	6	4
MAT-172	Precalculus Trigonometry	3	2	4
SRV-210	Surveying III	2	6	4
SRV-240	Topo/Site Surveying	2	6	4
WLD-111	Oxy-Fuel Welding	1	3	2
WLD-112	Basic Welding Processes	1	3	2

## Architectural Technology (C40100)

### Certificate Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ARC-111	Intro to Arch Technology	1	6	3
ARC-112	Constr Matls & Methods	3	2	4
BPR-130	Printing Reading - Construction	3	0	3
SST-140	Green Bldg & Design Concepts	<u>3</u>	<u>0</u>	<u>3</u>
		10	8	13
<b>SECOND SEMESTER (Spring)</b>				
ARC-114	Architectural CAD	1	3	2
CST-241	Planning/Estimating I	<u>2</u>	<u>2</u>	<u>3</u>
		3	5	5

**Total Required Minimum Semester Hours Credit****18****Automotive Systems Technology**

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.

**Automotive Systems Technology:** A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. 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 conditioning systems

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

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

**Automotive Systems Technology (A60160)****Associate in Applied Science Degree Program**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
AUT-141	Suspension & Steering Sys	2	3	3
AUT-141A	Suspension & Steering Lab	0	3	1
MAT-110	Math Measurement & Literacy (or higher)	***	***	3-4
TRN-110	Intro to Transport Tech	1	2	2

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 APPLIED SCIENCE PROGRAMS
 

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TRN-120	Basic Transp Electricity	<u>4</u>	<u>3</u>	<u>5</u>
		***	***	15-16

**SECOND SEMESTER (Spring)**

AUM-111	Managing Automotive Org	3	0	3
AUT-151	Brake Systems	2	3	3
AUT-151A	Brake Systems Lab	0	3	1
AUT-181	Engine Performance 1	2	3	3
TRN-180	Basic Welding for Transp	<u>1</u>	<u>4</u>	<u>3</u>
		8	13	13

**THIRD SEMESTER (Summer)**

ENG-111	Writing and Inquiry	3	0	3
TRN-140	Transp Climate Control	1	2	2
TRN-140A	Transp Climate Cont Lab	1	2	2
WBL-111	Work-Based Learning I	<u>0</u>	<u>10</u>	<u>1</u>
		5	14	8

**FOURTH SEMESTER (Fall)**

AUT-116	Engine Repair	2	3	3
AUT-116A	Engine Repair Lab	0	3	1
AUT-163	Adv Auto Electricity	2	3	3
AUT-183	Engine Performance 2	2	6	4
WBL-112	Work-Based Learning I <i>or</i>			
AUB-111	Painting & Refinishing I	<u>***</u>	<u>***</u>	<u>2-4</u>
		***	***	13-15

**FIFTH SEMESTER (Spring)**

AUT-231	Man Trans/Axles/Drtrains	2	3	3
COM-231	Public Speaking <i>or</i>			
COM-120	Intro Interpersonal Com	3	0	3
PSY-118	Interpersonal Psychology	3	0	3
WBL-122	Work-Based Learning II	0	20	2
***	Restricted Elective	<u>***</u>	<u>***</u>	<u>2-4</u>
		***	***	13-15

**SIXTH SEMESTER (Summer)**

AUT-221	Auto Transm/Transaxles	2	3	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		5	3	6

**Total Required Minimum Semester Hours Credit****68****Restricted Electives:**

ACC-120	Prin of Financial Accounting	3	2	4
ACC-149	Intro to Acc Spreadsheets	1	3	2
AUT-113	Automotive Servicing I	0	6	2
BUS-137	Principles of Management	3	0	3
BUS-153	Human Resource Management	3	0	3
BUS-255	Org Behavior in Business	3	0	3
LDD-112	Intro Light-Duty Diesel	2	2	3
LDD-181	Ldd Fuel Systems	2	6	4

**Automotive Systems Technology (D60160)****Diploma Program**

		<b>Course Hours Per Week</b>		<b>Semester Hours Credit</b>
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
AUT-141	Suspension & Steering Sys	2	3	3
AUT-141A	Suspension & Steering Lab	0	3	1
MAT-110	Math Measurement & Literacy (or higher)	***	***	3-4
TRN-110	Intro to Transport Tech	1	2	2
TRN-120	Basic Transp Electricity	<u>4</u>	<u>3</u>	<u>5</u>
		***	***	15-16
<b>SECOND SEMESTER (Spring)</b>				
AUM-111	Managing Automotive Org	3	0	3
AUT-151	Brake Systems	2	3	3
AUT-151A	Brake Systems Lab	0	3	1
AUT-181	Engine Performance 1	2	3	3
TRN-180	Basic Welding for Transp	<u>1</u>	<u>4</u>	<u>3</u>
		8	13	13
<b>THIRD SEMESTER (Summer)</b>				
ENG-111	Writing and Inquiry	3	0	3
TRN-140	Transp Climate Control	1	2	2
TRN-140A	Transp Climate Cont Lab	1	2	2
WBL-111	Work-Based Learning I	<u>0</u>	<u>10</u>	<u>1</u>
		5	14	8
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>36</u></b>

**Automotive Systems Technology (C60160A)****Automotive Management Certificate Program**

		<b>Course Hours Per Week</b>		<b>Semester Hours Credit</b>
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
ACC-120	Prin of Financial Accounting	3	2	4
BUS-137	Principles of Management	3	0	3
BUS-153	Human Resource Management	<u>3</u>	<u>0</u>	<u>3</u>
		9	2	10
<b>SECOND SEMESTER (Spring)</b>				
ACC-149	Intro to Acct Spreadsheets	1	3	2
AUM-111	Managing Automotive Org	<u>3</u>	<u>0</u>	<u>3</u>
		4	3	5
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

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 APPLIED SCIENCE PROGRAMS
 

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## Automotive Systems Technology (C60160C)

### C-Tech Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
AUT-141	Suspension & Steering Sys	2	3	3
AUT-141A	Suspension & Steering Lab	0	3	1
TRN-110	Intro to Transport Tech	$\frac{1}{3}$	$\frac{2}{8}$	$\frac{2}{6}$
<b>SECOND SEMESTER (Spring)</b>				
AUT-151	Brake Systems	2	3	3
AUT-151A	Brake Systems Lab	0	3	1
AUT-181	Engine Performance 1	$\frac{2}{4}$	$\frac{3}{9}$	$\frac{3}{7}$
<b>THIRD SEMESTER (Summer)</b>				
TRN-140	Transp Climate Control	1	2	2
TRN-140A	Transp Climate Cont Lab	$\frac{1}{2}$	$\frac{2}{4}$	$\frac{2}{4}$
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>17</u></b>

## Automotive Systems Technology (C60160LD)

### Light-Duty Diesels & Emerging Technologies Certificate Program – As Needs Demand

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
LDD-181	Ldd Fuel Systems	2	6	4
TRN-110	Intro to Transport Tech	$\frac{1}{3}$	$\frac{2}{8}$	$\frac{2}{6}$
<b>SECOND SEMESTER (Spring)</b>				
AUT-181	Engine Performance I	2	3	3
LDD-112	Intro Light-Duty Diesel	$\frac{2}{4}$	$\frac{2}{5}$	$\frac{3}{6}$
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## Aviation Management & Career Pilot Technology

The Aviation Management and Career Pilot Technology curriculum prepares individuals for a variety of aviation and aviation-related careers including the commercial airlines, general aviation, the aerospace industry, the military, unmanned aircraft systems industries, and state and federal aviation organizations.

Course work includes fundamentals of flight, aerodynamics, aircraft performance, meteorology, navigation, federal regulations, aviation management, unmanned aircraft systems, and instrument and commercial ground training, flight and simulator training, and entrepreneurship or business management training.

Graduates may earn a commercial pilot certificate with an instrument rating, specialize in aviation management or in unmanned air systems, and may find employment as commercial, corporate, and military pilots, fixed base operators and airport managers, as pilots or technicians in the unmanned aircraft systems industry, or as flight instructors, and flight dispatchers.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

## **Aviation Management (A60180A)**

### **Associate in Applied Science Degree Program**

*The Aviation Management track focuses on the skills and knowledge required for aviation related careers including those in general aviation, the aerospace industry and state and federal aviation organizations.*

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
AER-110	Air Navigation	2	2	3
AER-111	Aviation Meteorology	3	0	3
AER-113	History of Aviation	2	0	2
AER-150	Private Pilot Flt Theory	2	2	3
BUS-137	Principles of Management	3	0	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		15	6	18
<b>SECOND SEMESTER (Spring)</b>				
AER-112	Aviation Laws and FARs	2	0	2
AER-114	Aviation Management	3	0	3
AER-160	Instrument Flight Theory	2	2	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
MAT-121	Algebra/Trigonometry I <i>or</i>			
MAT-171	Precalculus Algebra	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	14-15
<b>THIRD SEMESTER (Summer)</b>				
COM-120	Intro Interpersonal Com <i>or</i>			
COM-231	Public Speaking	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6

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 APPLIED SCIENCE PROGRAMS
 

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**FOURTH SEMESTER (Fall)**

AER-170	Commercial Flight Theory	3	0	3
AER-211	Air Traffic Control	2	0	2
AER-216	Engines and Systems	2	2	3
AER-218	Human Factors in Aviation	2	0	2
PHY-110	Conceptual Physics	3	0	3
PHY-110A	Conceptual Physics Lab	0	2	1
***	Aviation Elective	<u>2</u>	<u>0</u>	<u>2</u>
		14	4	16

**FIFTH SEMESTER (Spring)**

ACC-120	Prin of Financial Accounting	3	2	4
AER-215	Flight Safety	3	0	3
AER-217	Air Transportation	3	0	3
PSY-150	General Psychology	3	0	3
***	Aviation Elective	***	<u>0</u>	<u>2-3</u>
		***	2	15-16

**Total Required Minimum Semester Hours Credit****69****Aviation Electives:**

AER-119	Aircraft Structures	2	0	2
AER-213	Avionics	2	0	2
AER-220	Airport Management	2	0	2
AER-280	Instructor Pilot Flt Theory	3	0	3

**Professional Pilot (A60180P)****Associate in Applied Science Degree Program**

*The Professional Pilot track focuses on the skills and knowledge required to be a successful commercial pilot. Graduates may earn a commercial pilot certificate with an instrument rating.*

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
AER-110	Air Navigation	2	2	3
AER-111	Aviation Meteorology	3	0	3
AER-113	History of Aviation	2	0	2
AER-150	Private Pilot Flt Theory	2	2	3
BUS-137	Principles of Management	3	0	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		15	6	18
<b>SECOND SEMESTER (Spring)</b>				
AER-112	Aviation Laws and FARs	2	0	2
AER-114	Aviation Management	3	0	3
AER-151	Flight-Private Pilot	0	3	1
AER-160	Instrument Flight Theory	2	2	3
AER-210	Flight Dynamics	3	0	3
MAT-121	Algebra/Trigonometry I <u>or</u>			



MAT-171	Precalculus Algebra	***	***	<u>3-4</u>
		***	***	15-16
<b>THIRD SEMESTER (Summer)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b>FOURTH SEMESTER (Fall)</b>				
AER-161	Flight-Instrument Pilot	0	6	2
AER-170	Commercial Flight Theory	3	0	3
AER-216	Engines and Systems	2	2	3
COM-120	Intro Interpersonal Com <u>or</u>			
COM-231	Public Speaking	3	0	3
PHY-110	Conceptual Physics	3	0	3
PHY-110A	Conceptual Physics Lab	0	2	1
***	Aviation Elective	***	***	<u>1-3</u>
		***	***	16-18
<b>FIFTH SEMESTER (Spring)</b>				
AER-171	Flight-Commercial Pilot	0	6	3
AER-215	Flight Safety	3	0	3
AER-217	Air Transportation	3	0	3
AER-280	Instructor Pilot Flt Theory	3	0	3
PSY-150	General Psychology	3	0	3
***	Aviation Elective	***	***	<u>1-3</u>
		***	***	16-18
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>71</u></b>
<b>Aviation Electives:</b>				
AER-119	Aircraft Structures	2	0	2
AER-211	Air Traffic Control	2	0	2
AER-212	Air Transport Pilot	3	0	3
AER-213	Avionics	2	0	2
AER-218	Human Factors in Aviation	2	0	2
AER-220	Airport Management	2	0	2
AER-281	Flight-CFI	0	3	1
AER-285	Flight-Multi-Engine	0	3	1

## Baking and Pastry Arts

This Baking and Pastry Arts Curriculum is designed to provide students with the skills and knowledge required for employment in the baking/pastry industry, including restaurants, hotels, independent bakeries/pastry shops, wholesale/retail markets, and high-volume bakeries, and/or further academic studies.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism.

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 APPLIED SCIENCE PROGRAMS
 

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Course work includes specialty/artisanal breads, desserts/pastries, decorative work, high-volume production, and food marketing.

Graduates should qualify for entry-level positions, such as pastry/bakery assistant, area pastry chef and assistant pastry chef. American Culinary Federation certification may be available to graduates.

## Baking and Pastry Arts (A55130)

### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
CUL-110	Sanitation and Safety	2	0	2
CUL-110A	Sanitation and Safety Lab	0	2	1
CUL-135	Food & Beverage Service	2	0	2
CUL-135A	Food & Beverage Serv Lab	0	2	1
CUL-140	Culinary Skills I	2	6	5
CUL-160	Baking I	<u>1</u>	<u>4</u>	<u>3</u>
		7	16	15
<b>SECOND SEMESTER (Spring)</b>				
BPA-150	Artisan & Specialty Bread	1	6	4
BPA-165	Hot and Cold Desserts	1	4	3
CUL-112	Nutrition for Foodservice	3	0	3
CUL-170	Garde Manger I	1	4	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		9	14	16
<b>THIRD SEMESTER (Summer)</b>				
BPA-130	European Cakes & Tortes	1	4	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		7	4	9
<b>FOURTH SEMESTER (Fall)</b>				
BPA-120	Petit Fours & Pastries	1	4	3
BPA-210	Cake Design & Decorating	1	4	3
BPA-250	Dessert/Bread Production	1	8	5
MAT-110	Math Measurement & Literacy (or higher)	***	***	3-4
WBL-111	Work-Based Learning I <i>or</i>			
	Take WBL-132 Spring ONLY	<u>0</u>	<u>0-10</u>	<u>0-1</u>
		***	***	14-16
<b>FIFTH SEMESTER (Spring)</b>				
BPA-220	Confection Artistry	1	6	4
BPA-260	Pastry & Baking Marketing	2	2	3
CUL-120	Purchasing	2	0	2
HRM-245	Human Resource Mgmt – Hosp	3	0	3

WBL-131	Work-Based Learning III <i>or</i>			
WBL-132	Work-Based Learning III	0	10-20	1-2
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		11	18-28	16-17
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>71</u></b>

## Baking and Pastry Arts (C55130)

### Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CUL-110	Sanitation and Safety	2	0	2
CUL-110A	Sanitation and Safety Lab	0	2	1
CUL-160	Baking I	<u>1</u>	<u>4</u>	<u>3</u>
		3	6	6
<b>SECOND SEMESTER (Spring)</b>				
BPA-150	Artisan & Specialty Breads	1	6	4
BPA-165	Hot & Cold Desserts	<u>1</u>	<u>4</u>	<u>3</u>
		2	10	7
<b>THIRD SEMESTER (Summer)</b>				
BPA-130	European Cakes & Tortes	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## Basic Law Enforcement Training

Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers with state, county or municipal governments, or with private enterprise.

This program utilizes State-Commission-mandated topics and methods of instruction. General subjects include, but are not limited to, criminal, juvenile, civil, traffic, and alcoholic beverage laws; investigative, patrol, custody, and court procedures; emergency responses; and ethics and community relations.

Students must successfully complete and pass all units of study mandated by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission to receive a certificate.

\*\*Students successfully completing a Basic Law Enforcement Training course, accredited by the North Carolina Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission will receive credit for CJC-113 Juvenile

Justice, CJC-120 Interviews and Interrogation, CJC-131, Criminal Law, CJC-132 Court Procedure and Evidence, and CJC-221 Investigative Principles, and CJC-231 Constitutional Law toward the Associate in Applied Science degree in Criminal Justice Technology. Students must have completed Basic Law Enforcement Training since 1985.

## Basic Law Enforcement Training (C55120)

### Certificate Program

		Course Hours		Semester
		Per Week	Hours	
		Class	Lab	Credit
CJC-100	Basic Law Enforcement Training	<u>10</u>	<u>30</u>	<u>20</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>20</u></b>

## Business Administration

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 businesses or industries.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

*Through careful selection of courses, both the Business Administration and Business Administration Hospitality Management Concentration degrees can be completed as an eLearning Online Degree Program.*

**Special Options for students graduating with the A.A.S. in Business Administration:** The Department of Management and Business Technologies has articulation agreements with St. Andrews University, UNC-Pembroke and UNC-Greensboro. Students can earn their A.A.S. at Sandhills CC and then continue to earn the BSBA and MBA from St. Andrews University or UNC-

Pembroke, or transfer to UNC-Greensboro and earn the BSBA under the 2Plus agreement. *UNC-G does not offer classes on the Sandhills CC campus.*

## Business Administration (A25120B)

### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-120	Prin of Financial Accounting	3	2	4
BUS-110	Introduction to Business	3	0	3
BUS-115	Business Law I	3	0	3
BUS-139	Entrepreneurship I	3	0	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		15	4	17
<b>SECOND SEMESTER (Spring)</b>				
ACC-121	Prin of Managerial Accounting	3	2	4
BUS-121	Business Math	2	2	3
BUS-125	Personal Finance	3	0	3
BUS-137	Principles of Management	3	0	3
CIS-110	Introduction to Computers <i>or</i>			
CIS-111	Basic PC Literacy	***	***	2-3
MAT-143	Quantitative Literacy (or higher)	***	***	<u>3-4</u>
		***	***	18-20
<b>THIRD SEMESTER (Summer)</b>				
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b>FOURTH SEMESTER (Fall)</b>				
BUS-153	Human Resource Management	3	0	3
BUS-225	Business Finance	2	2	3
BUS-260	Business Communication	3	0	3
ECO-251	Prin of Microeconomics <i>or</i>			
ECO-252	Prin of Macroeconomics	3	0	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
MKT-120	Principles of Marketing	<u>3</u>	<u>0</u>	<u>3</u>
		17	2	18
<b>FIFTH SEMESTER (Spring)</b>				
BUS-230	Small Business Management	3	0	3
BUS-238	Integrated Management	3	0	3
BUS-255	Org Behavior in Business	3	0	3
ECM-210	Intro to E-Commerce	2	2	3
***	Technical Elective	***	***	<u>2-4</u>
		***	***	14-16
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>73</u></b>

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 APPLIED SCIENCE PROGRAMS
 

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**Technical Electives:**

ACC- 115	College Accounting	3	2	4
ACC-140	Payroll Accounting	1	3	2
ACC-149	Intro to Acc Spreadsheets	1	3	2
ACC-150	Accounting Software Appl	1	3	2
BAF-110	Principles of Banking	3	0	3
BAF-233	Commercial Lending	3	0	3
BUS-148	Survey of Real Estate	3	0	3
CSV-110	Intro to Customer Service	3	0	3
DBA-110	Database Concepts	2	3	3
WEB-110	Internet/Web Fundamentals	2	2	3

## Business Administration-Hospitality Management (A25120H)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-120	Prin of Financial Accounting	3	2	4
BUS-110	Introduction to Business	3	0	3
BUS -115	Business Law I	3	0	3
ENG-111	Writing and Inquiry	3	0	3
MAT-143	Quantitative Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	17-18
<b>SECOND SEMESTER (Spring)</b>				
BUS-121	Business Math	2	2	3
BUS-137	Principles of Management	3	0	3
CIS-110	Introduction to Computers <b><u>or</u></b>			
CIS-111	Basic PC Literacy	***	***	2-3
HRM-120	Front Office Procedures	3	0	3
HRM-135	Facilities Management	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	14-15
<b>THIRD SEMESTER (Summer)</b>				
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Sciences Elective	3	0	3
WBL-111	Work-Based Learning I	<u>0</u>	<u>10</u>	<u>1</u>
		6	10	7
<b>FOURTH SEMESTER (Fall)</b>				
BUS-153	Human Resource Management	3	0	3
ECO-251	Prin of Microeconomics <b><u>or</u></b>			
ECO-252	Prin of Macroeconomics	3	0	3
ENG-112	Writing/Research in the Disc <b><u>or</u></b>			
ENG-114	Prof Research & Reporting	3	0	3
HRM-275	Leadership-Hospitality	3	0	3
MKT-120	Principles of Marketing	<u>3</u>	<u>0</u>	<u>3</u>
		15	0	15

**FIFTH SEMESTER (Spring)**

BUS-230	Small Business Management	3	0	3
BUS-255	Org Behavior in Business	3	0	3
BUS-260	Business Communication	3	0	3
HRM-220	Cost Control-Food & Bev	3	0	3
***	Technical Elective	***	***	<u>2-4</u>
		***	***	14-16

**Total Required Minimum Semester Hours Credit****67****Technical Electives:**

ACC-115	College Accounting	3	2	4
ACC-140	Payroll Accounting	1	2	2
ACC-149	Intro to Acc Spreadsheets	1	3	2
ACC-150	Accounting Software Appl	1	3	2
BAF-110	Principles of Banking	3	0	3
BUS-148	Survey of Real Estate	3	0	3
CSV-110	Intro to Customer Service	3	0	3
DBA-110	Database Concepts	2	3	3
WEB-110	Internet/Web Fundamentals	2	2	3

**Business Administration (D25120)****Diploma Program**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-120	Prin of Financial Accounting	3	2	4
BUS-110	Introduction to Business	3	0	3
BUS-139	Entrepreneurship I	3	0	3
BUS-153	Human Resource Management	3	0	3
MKT-120	Principles of Marketing	<u>3</u>	<u>0</u>	<u>3</u>
		15	4	17
<b>SECOND SEMESTER (Spring)</b>				
BUS-115	Business Law I	3	0	3
BUS-121	Business Math	2	2	3
CIS-110	Introduction to Computers <i>or</i>			
CIS-111	Basic PC Literacy	***	***	2-3
ECO-251	Prin of Microeconomics <i>or</i>			
ECO-252	Prin of Macroeconomics	3	0	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	14-15
<b>THIRD SEMESTER (Summer)</b>				
BUS-137	Principles of Management	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>37</u></b>

## **Business Administration (C25120B)**

### **Banking and Finance Certificate Program**

The Banking and Finance certificate curriculum is a two-semester program designed to prepare individuals for entry-level positions in banking and finance. Course work includes principles of banking, money and banking, fundamentals of banking, survey of real estate and practices in the areas of accounting and spreadsheets.

Graduates should qualify for a variety of entry-level jobs in banking and finance. Also available are employment opportunities with insurance, brokerage and mortgage companies, and governmental lending agencies.

**Special Program Requirements:** Students must have credit for DRE-098 and DMA-010, DMA-020, and DMA-030.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online format.*

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-120	Prin of Financial Accounting	3	2	4
BAF-110	Principles of Banking	3	0	3
BUS-148	Survey of Real Estate	<u>3</u>	<u>0</u>	<u>3</u>
		9	4	11
<b>SECOND SEMESTER (Spring)</b>				
ACC-149	Intro to Acc Spreadsheets	1	3	2
BAF-233	Commercial Loans	<u>3</u>	<u>0</u>	<u>3</u>
		4	3	5
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## **Business Administration (C25120)**

### **Entrepreneurship Certificate Program**

The Business Administration–Entrepreneurship Certificate is a three-semester program to help students become entrepreneurial thinkers for starting their own ventures, working on management teams of entrepreneurial ventures, or applying their entrepreneurial skills to existing businesses.

**Special Program Requirements:** Students must have credit for ENG-095 or DRE-098 Reading & Comp. Strategies, have credit for MAT-060 Essentials of Mathematics, or DMA-010, DMA-020, and DMA-030. Students can complete these classes prior to enrolling in the Entrepreneurship Certificate program.



All courses in the Entrepreneurship Certificate program, including the prerequisites, are courses in the A.A.S in Business Administration.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online format.*

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
ACC-120	Prin of Financial Accounting	3	2	4
BUS-139	Entrepreneurship I	<u>3</u>	<u>0</u>	<u>3</u>
		6	2	7
<b>SECOND SEMESTER (Spring)</b>				
BUS-121	Business Math	2	2	3
BUS-230	Small Business Management	<u>3</u>	<u>0</u>	<u>3</u>
		5	2	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

## **Business Administration (C25120S)**

### **Small Business Management Certificate Program**

The Small Business Management certificate program is a one-semester program designed to prepare individuals whose primary degree is in a specialty other than business. Degrees that will prepare the individual with marketable skills that may be considering opening their own business in a field such as massage therapy, cosmetology, landscape gardening, culinary, and many others. Individuals wanting to go into business in their chosen field of training will require basic business skills in order to succeed. This certificate is designed to supplement that specific training with business fundamentals to provide small business startups an overview of basic skills to succeed.

Course work includes topics related to small business accounting principles including basic bookkeeping, government requirements, and payroll. Additional course work in business law, topics relating to management, and small business management topics such as writing a business plan are included in the certificate.

**Special Program Requirements:** Students must have credit for ENG-095 or DRE-098 Reading & Comp. Strategies and credit for MAT-060 Essential Mathematics, or DMA-010, DMA-020, and DMA-030.

All courses in the Small Business Management Certificate Program are courses in the A.A.S in Business Administration.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online format.*

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 APPLIED SCIENCE PROGRAMS
 

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		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACC-115	College Accounting <i>or</i>			
ACC-120	Prin of Financial Accounting	3	2	4
BUS-115	Business Law I	<u>3</u>	<u>0</u>	<u>3</u>
		6	2	7
<b>SECOND SEMESTER (Spring)</b>				
BUS-137	Principles of Management <i>or</i>			
BUS-121	Business Math	***	***	3
BUS-230	Small Business Management	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

## Civil Engineering Technology

**Engineering and Technology Pathway:** These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

**Civil Engineering Technology:** A course of study that 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. 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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

**Civil Engineering Technology (A40140)****Associate in Applied Science Degree Program**

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
BPR-130	Print Reading-Construction	3	0	3
CEG-210	Construction Mtls & Methods	2	3	3
CIS-111	Basic PC Literacy	1	2	2
EGR-110	Intro to Engineering Tech <u>or</u>			
EGR-150	Intro to Engineering	1	2	2
EGR-115	Intro to Technology	2	3	3
EGR-115A	Intro to Technology Lab	0	3	1
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		12	15	18
<b>SECOND SEMESTER (Spring)</b>				
CEG-111	Intro to GIS and GNSS	2	4	4
CEG-235	Project Management/Estimating	2	3	3
EGR-120	Eng and Design Graphics	2	2	3
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
MAT-121	Algebra/Trigonometry I <u>or</u>			
MAT-171	Precalculus Algebra	***	***	<u>3-4</u>
		***	***	16-17
<b>THIRD SEMESTER (Summer)</b>				
EGR-251	Statics	2	2	3
SRV-110	Surveying I	2	6	4
***	Physics Elective	<u>3</u>	***	<u>4</u>
		7	***	11
<b>FOURTH SEMESTER (Fall)</b>				
CEG-211	Hydrology and Erosion Control	2	3	3
CIV-111	Soils & Foundations	2	4	4
SRV-111	Surveying II	2	6	4
***	Humanities/Fine Arts Elective	3	0	3
***	Directed Elective	***	***	<u>3-4</u>
		***	***	17-18
<b>FIFTH SEMESTER (Spring)</b>				
CEG-212	Intro to Environmental Tech	2	3	3
SRV-240	Topo/Site Surveying	2	6	4
***	Social/Behavioral Sciences Elective	3	0	3
***	Directed Elective	***	***	<u>3</u>
		***	***	13
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>75</u></b>
<b>Physics Electives:</b>				
PHY-131	Physics-Mechanics	3	2	4
PHY-151	College Physics I	3	2	4
PHY-251	General Physics I	3	3	4
<b>Directed Electives:</b>				

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 APPLIED SCIENCE PROGRAMS
 

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CIV-221	Steel and Timber Design	2	3	3
CIV-222	Reinforced Concrete	2	3	3
MAT-172	Precalculus Trigonometry	3	2	4
MAT-263	Brief Calculus	3	2	4
MAT-271	Calculus I	3	2	4
MAT-272	Calculus II	3	2	4
WBL-111	Work-Based Learning I	0	10	1
WBL-112	Work-Based Learning I	0	20	2
WBL-113	Work-Based Learning I	0	30	3
WBL-121	Work-Based Learning II	0	10	1
WBL-122	Work-Based Learning II	0	20	2

### Civil Engineering Technology (C40140)

#### Certificate Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
CEG-210	Construction Mtls & Methods	2	3	3
EGR-110	Intro to Engineering Tech <i>or</i>			
EGR-150	Intro to Engineering	1	2	2
EGR-115	Intro to Technology	2	3	3
EGR-115A	Intro to Technology Lab	<u>0</u>	<u>3</u>	<u>1</u>
		5	11	9
<b>SECOND SEMESTER (Spring)</b>				
CEG-235	Project Management/Estimating	2	3	3
EGR-120	Eng and Design Graphics	<u>2</u>	<u>2</u>	<u>3</u>
		4	5	6
<b>THIRD SEMESTER (Summer)</b>				
EGR-251	Statics	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

### Collision Repair & Refinishing Technology

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.

**Collision Repair and Refinishing Technology:** A program that prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. Includes instruction in structural analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, and damage analysis and estimating.

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

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format*

## Collision Repair & Refinishing Technology (A60130)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
AUT-141	Suspension & Steering Sys	2	3	3
AUT-141A	Suspension & Steering Lab	0	3	1
MAT-110	Math Measurement & Literacy (or higher)	***	***	3-4
TRN-110	Intro to Transport Tech	1	2	2
TRN-120	Basic Transp Electricity	<u>4</u>	<u>3</u>	<u>5</u>
		***	***	15-16
<b>SECOND SEMESTER (Spring)</b>				
AUM-111	Managing Automotive Org	3	0	3
AUT-151	Brake Systems	2	3	3
AUT-151A	Brake Systems Lab	0	3	1
AUT-181	Engine Performance 1	2	3	3
TRN-180	Basic Welding for Transp	<u>1</u>	<u>4</u>	<u>3</u>
		8	13	13
<b>THIRD SEMESTER (Summer)</b>				
ENG-111	Writing and Inquiry	3	0	3
TRN-140	Transp Climate Control	1	2	2
TRN-140A	Transp Climate Cont Lab	1	2	2
WBL-111	Work-Based Learning I	<u>0</u>	<u>10</u>	<u>1</u>
		5	14	8
<b>FOURTH SEMESTER (Fall)</b>				
AUB-111	Painting & Refinishing I	2	6	4

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 APPLIED SCIENCE PROGRAMS
 

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AUB-121	Non-Structural Damage I	1	4	3
AUB-162	Autobody Estimating	1	2	2
COM-231	Public Speaking <b><i>or</i></b>			
COM-120	Intro to Interpersonal Com	3	0	3
PSY-118	Interpersonal Psychology	<u>3</u>	<u>0</u>	<u>3</u>
		10	12	15
<b>FIFTH SEMESTER (Spring)</b>				
AUB-112	Painting & Refinishing II	2	6	4
AUB-122	Non-Structural Damage II	2	6	4
AUB-131	Structural Damage I	2	4	4
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		9	16	15
<b>SIXTH SEMESTER (Summer)</b>				
AUB-136	Plastics & Adhesives	1	4	3
WBL-121	Work-Based Learning I	0	10	1
***	Restricted Elective	***	***	<u>2-4</u>
		***	***	6-8
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>72</u></b>

**Restricted Electives:**

AUB-114	Special Finishes	1	2	2
AUB-132	Structural Damage II	2	6	4
AUC-112	Auto Custom Fabrication	2	4	4
AUC-114	Custom Fiberglass	2	4	4

## Collision Repair & Refinishing Technology (D60130)

### Diploma Program

		Course Hours		Semester Hours Credit
		Per Week	Per Week	
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
AUB-111	Painting & Refinishing I	2	6	4
AUB-121	Non-Structural Damage I	1	4	3
AUB-162	Autobody Estimating	1	2	2
COM-231	Public Speaking <b><i>or</i></b>			
COM-120	Intro Interpersonal Com	3	0	3
PSY-118	Interpersonal Psychology	<u>3</u>	<u>0</u>	<u>3</u>
		10	12	15
<b>SECOND SEMESTER (Spring)</b>				
AUB-112	Painting & Refinishing II	2	6	4
AUB-122	Non-Structural Damage II	2	6	4
AUB-131	Structural Damage I	2	4	4
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		9	16	15
<b>THIRD SEMESTER (Summer)</b>				
AUB-136	Plastics & Adhesives	1	4	3
WBL-121	Work-Based Learning I	0	10	1
***	Restricted Elective	***	***	<u>2-4</u>

	***	***	6-8
<b><u>Total Required Minimum Semester Hours Credit</u></b>			<b><u>36</u></b>

**Restricted Electives:**

AUB-114	Special Finishes	1	2	2
AUB-132	Structural Damage II	2	6	4
AUC-112	Auto Custom Fabrication	2	4	4
AUC-114	Custom Fiberglass	2	4	4

**Collision Repair & Refinishing Technology (C60130C)****Automotive Fabrication Certificate Program**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
AUB-111	Painting & Refinishing I	2	6	4
AUB-114	Special Finishes	1	2	2
AUC-112	Auto Custom Fabrication	2	4	4
AUC-114	Custom Fiberglass	<u>2</u>	<u>4</u>	<u>4</u>
		7	16	14
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>14</u></b>

**Collision Repair & Refinishing Technology (C60130N)****Non-Structural Repair Certificate Program**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
AUB-121	Non-Structural Damage I	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b>SECOND SEMESTER (Spring)</b>				
AUB-122	Non-Structural Damage II	2	6	4
AUB-131	Structural Damage I	<u>2</u>	<u>4</u>	<u>4</u>
		4	10	8
<b>THIRD SEMESTER (Summer)</b>				
AUB-136	Plastics & Adhesives	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>14</u></b>

## Collision Repair & Refinishing Technology (C60130P)

### Paint and Refinishing Certificate Program

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
AUB-111	Painting & Refinishing I	2	6	4
AUB-121	Non-Structural I	1	4	3
AUB-162	Autobody Estimating	<u>1</u>	<u>2</u>	<u>2</u>
		4	12	9
<b>SECOND SEMESTER (Spring)</b>				
AUB-112	Painting & Refinishing II	<u>2</u>	<u>6</u>	<u>4</u>
		2	6	4
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

## Collision Repair & Refinishing Technology (C60130S)

### Structural Repair Certificate Program

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
AUT-141	Suspension & Steering Sys	2	3	3
AUT-141A	Suspension & Steering Lab	<u>0</u>	<u>3</u>	<u>1</u>
		2	6	4
<b>SECOND SEMESTER (Spring)</b>				
AUB-131	Structural Damage I	2	4	4
TRN-180	Basic Welding for Transp	<u>1</u>	<u>4</u>	<u>3</u>
		3	8	7
<b>THIRD SEMESTER (Summer)</b>				
AUB-132	Structural Damage II	<u>2</u>	<u>6</u>	<u>4</u>
		2	6	4
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

## Computer Engineering Technology

**Pathway Description:** These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement



technicians, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

**Computer Engineering Technology:** 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.

## Computer Engineering Technology (A40160)

### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
CIS-110	Introduction to Computers	2	2	3
ELC-131	Circuit Analysis I	3	3	4
ENG-111	Writing and Inquiry	3	0	3
***	Technical Elective	***	***	<u>3-4</u>
		***	***	14-15
<b>SECOND SEMESTER (Spring)</b>				
ELN-131	Analog Electronics I	3	3	4
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
MAT-121	Algebra/Trigonometry I <i>or</i>			
MAT-171	Precalculus Algebra	***	***	3-4
***	Technical Elective	***	***	<u>3-4</u>
		***	***	13-15
<b>THIRD SEMESTER (Summer)</b>				
CSC-134	C++ Programming	2	3	3
ELN-133	Digital Electronics	3	3	4
PHY-131	Physics-Mechanics <i>or</i>			
PHY-151	College Physics I	<u>3</u>	<u>2</u>	<u>4</u>
		8	8	11
<b>FOURTH SEMESTER (Fall)</b>				
CET-111	Computer Upgrade/Repair I	2	3	3
ELN-233	Microprocessor Systems	3	3	4
***	Social/Behavioral Sciences Elective	3	0	3

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 APPLIED SCIENCE PROGRAMS
 

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***	Technical Elective	***	***	<u>3-4</u>
		***	***	13-14
<b>FIFTH SEMESTER (Spring)</b>				
CET-211	Computer Upgrade/Repair II	2	3	3
ELC-229	Applications Project	1	3	2
NOS-120	Linux/UNIX Single User	2	2	3
***	Humanities/Fine Arts Elective	3	0	3
***	Technical Elective	***	***	<u>3-4</u>
		***	***	14-15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>65</u></b>

**Technical Electives:** Please select four courses from the following:

CET-150	Computer Forensics I	2	3	3
CET-250	Computer Forensics II	2	3	3
CIS-115	Intro to Prog & Logic	2	3	3
CSC-139	Visual BASIC Programming	2	3	3
CTI-140	Virtualization Concepts	1	4	3
MAT-172	Precalculus Trigonometry	3	2	4
MAT-271	Calculus I	3	2	4
NET-125	Introduction to Networks	1	4	3
NET-126	Routing Basics	1	4	3
NET-241	Introduction to VOIP	2	3	3
NOS-130	Windows Single User	2	2	3
NOS-220	Linux/Unix Admin I	2	2	3
NOS-230	Windows Administration I	2	2	3
PHY-152	College Physics II	3	2	4
SEC-110	Security Concepts	2	2	3
SEC-160	Security Administration I	2	2	3
WEB-110	Internet/Web Fundamentals	2	2	3
WEB-115	Web Markup and Scripting	2	2	3
<b>These three WBL courses count as ONE technical elective</b>				
WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1
WBL-121	Work-Based Learning II	0	10	1

## Computer Engineering Technology (D40160C)

### Computer Upgrade and Repair Diploma Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
ELC-131	Circuit Analysis I	3	3	4
ENG-111	Writing and Inquiry	3	0	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
		10	7	13
<b>SECOND SEMESTER (Spring)</b>				
ELN-131	Analog Electronics I	3	3	4
ENG-112	Writing/Research in the Disc <i>or</i>			

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ENG-114	Prof Research & Reporting	3	0	3
MAT-121	Algebra/Trigonometry I <u>or</u>			
MAT-171	Precalculus Algebra	***	***	3-4
NET-125	Introduction to Networks	<u>1</u>	<u>4</u>	<u>3</u>
		***	***	13-14
<b>THIRD SEMESTER (Summer)</b>				
CET-111	Computer Upgrade/Repair I	2	3	3
ELN-133	Digital Electronics	3	3	4
NOS-120	Linux/UNIX Single User	<u>2</u>	<u>2</u>	<u>3</u>
		7	8	10
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>36</u></b>

### Computer Engineering Technology (C40160A)

#### Repair Certificate Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
CET-111	Computer Upgrade/Repair I	2	3	3
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	5	6
<b>SECOND SEMESTER (Spring)</b>				
NET-125	Introduction to Networks	1	4	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
		3	6	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

### Computer Engineering Technology (C40160B)

#### Advanced Repair Certificate Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>SECOND SEMESTER (Spring)</b>				
CET-211	Computer Upgrade & Repair II	2	3	3
NET-125	Introduction to Networks	<u>2</u>	<u>3</u>	<u>3</u>
		4	6	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

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 APPLIED SCIENCE PROGRAMS
 

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**Computer Engineering Technology (C40160C)**
**Electronics Certificate Program**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success and Study Skills	0	2	1
ELC-131	Circuit Analysis I	<u>3</u>	<u>3</u>	<u>4</u>
		3	5	5
<b>SECOND SEMESTER (Spring)</b>				
CIS-110	Introduction to Computers	2	2	3
ELN-131	Analog Electronics I	<u>3</u>	<u>3</u>	<u>4</u>
		5	5	7
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Computer Engineering Technology (C40160F)**
**Forensics Certificate Program**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
CET-150	Computer Forensics I	2	3	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
		4	5	6
<b>SECOND SEMESTER (Spring)</b>				
CIS-110	Introduction to Computers	2	2	3
NOS-120	Linux/UNIX Single User	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Computer Engineering Technology (C40160G)**
**Advanced Forensics Certificate Program**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>SECOND SEMESTER (Spring)</b>				
CET-250	Computer Forensics II	2	3	3
NET-125	Introduction to Networks	<u>1</u>	<u>4</u>	<u>3</u>
		3	7	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## Computer Engineering Technology (C40160NN)

### Networking Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
NET-125	Introduction to Networks	<u>1</u>	<u>4</u>	<u>3</u>
		3	6	6
<b>SECOND SEMESTER (Spring)</b>				
NET-126	Routing Basics	1	4	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
		3	6	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## Computer Engineering Technology (C40160S)

### Security Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
SEC-110	Security Concepts	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>SECOND SEMESTER (Spring)</b>				
NET-125	Introduction to Networks	1	4	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
		3	6	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## Computer Engineering Technology (C40160T)

### Advanced Security Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
NET-125	Introduction to Networks	<u>1</u>	<u>4</u>	<u>3</u>
		3	6	6
<b>SECOND SEMESTER (Spring)</b>				
NOS-130	Windows Single User	2	2	3
SEC-160	Security Administration I	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## Cosmetology

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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Cosmetology (A55140)

#### Associate in Applied Science Degree Program

*First, Second, and Fourth Semesters may be taken either Fall or Spring.*

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
COS-111	Cosmetology Concepts I	4	0	4
COS-112	Salon I	<u>0</u>	<u>24</u>	<u>8</u>
		4	24	12
<b>SECOND SEMESTER (Spring)</b>				
COS-113	Cosmetology Concepts II	4	0	4
COS-114	Salon II	<u>0</u>	<u>24</u>	<u>8</u>
		4	24	12
<b>THIRD SEMESTER (Summer)</b>				
COS-115	Cosmetology Concepts III	4	0	4
COS-116	Salon III	<u>0</u>	<u>12</u>	<u>4</u>
		4	12	8
<b>FOURTH SEMESTER (Fall)</b>				
COS-117	Cosmetology Concepts IV	2	0	2
COS-118	Salon IV	0	21	7
COS-223	Contemp Hair Coloring	<u>1</u>	<u>3</u>	<u>2</u>
		3	24	11
<b>FIFTH SEMESTER (Spring)</b>				
ACA-115	Success & Study Skills	0	2	1
BUS-110	Introduction to Business	3	0	3

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 SANDHILLS COMMUNITY COLLEGE
 

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ENG 111	Writing and Inquiry	3	0	3
PSY-118	Interpersonal Psychology <i>or</i>			
PSY-150	General Psychology	3	0	3
***	Natural Science/Math Elective	<u>3</u>	<u>0</u>	<u>3</u>
		12	2	13
<b>SIXTH SEMESTER (Summer)</b>				
BUS-137	Principles of Management	3	0	3
CIS-110	Introduction to Computers <i>or</i>			
CIS-111	Basic PC Literacy	***	***	2-3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	11-12
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>67</u></b>

## Cosmetology (D55140)

### Diploma Program

		Course Hours		Semester Hours Credit
		Per Week	Per Week	
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
COS-111	Cosmetology Concepts I	4	0	4
COS-112	Salon I	0	24	8
PSY-118	Interpersonal Psychology <i>or</i>			
PSY-150	General Psychology	<u>3</u>	<u>0</u>	<u>3</u>
		7	24	15
<b>SECOND SEMESTER (Spring)</b>				
COS-113	Cosmetology Concepts II	4	0	4
COS-114	Salon II	0	24	8
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		7	24	15
<b>THIRD SEMESTER (Summer)</b>				
COS-115	Cosmetology Concepts III	4	0	4
COS-116	Salon III	<u>0</u>	<u>12</u>	<u>4</u>
		4	12	8
<b>FOURTH SEMESTER (Fall)</b>				
***	COS Elective	***	***	2-9
		***	***	2-9
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>40</u></b>

**COS Elective:** Take 1 of the following options:

COS-223	Contemp Hair Coloring	1	3	2
COS-117	Cosmetology Concepts IV <i>and</i>	2	0	2
COS-118	Salon IV	0	21	7

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 APPLIED SCIENCE PROGRAMS
 

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## Cosmetology (C55140)

### Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
COS-111	Cosmetology Concepts I	4	0	4
COS-112	Salon I	<u>0</u>	<u>24</u>	<u>8</u>
		4	24	12
<b>SECOND SEMESTER (Spring)</b>				
COS-113	Cosmetology Concepts II	4	0	4
COS-114	Salon II	0	24	8
COS-223	Contemp Hair Coloring	<u>1</u>	<u>3</u>	<u>2</u>
		5	27	14
<b>THIRD SEMESTER (Summer)</b>				
COS-115	Cosmetology Concepts III	4	0	4
COS-116	Salon III	<u>0</u>	<u>12</u>	<u>4</u>
		4	12	8
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>34</u></b>

## Criminal Justice Technology

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.

The courses in the first year will be offered either in traditional or hybrid formats, with the exception of ACA 115. After the first year, courses may also be delivered in an online format. For more information, please contact the program coordinator.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*



\*Courses eligible for credit to students successfully completing a Basic Law Enforcement Training course, accredited by the North Carolina Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission. Students must have completed Basic Law Enforcement Training since 1985.

## Criminal Justice Technology (A55180)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
CJC-111	Intro to Criminal Justice	3	0	3
CJC-112	Criminology	3	0	3
CJC-113	Juvenile Justice*	3	0	3
ENG-111	Writing and Inquiry	3	0	3
PSY-150	General Psychology	<u>3</u>	<u>0</u>	<u>3</u>
		15	2	16
<b>SECOND SEMESTER (Spring)</b>				
CIS-110	Introduction to Computers <u>or</u>			
CIS-111	Basic PC Literacy	***	***	2-3
CJC-120	Interviews/Interrogations*	1	2	2
CJC-121	Law Enforcement Operations	3	0	3
CJC-131	Criminal Law*	3	0	3
CJC-132	Court Procedure & Evidence*	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	13-14
<b>THIRD SEMESTER (Summer)</b>				
CJC-212	Ethics & Comm Relations	3	0	3
CJC-232	Civil Liability	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b>FOURTH SEMESTER (Fall)</b>				
CJC-221	Investigative Principles*	3	2	4
CJC-225	Crisis Intervention	3	0	3
CJC-231	Constitutional Law*	3	0	3
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
PSY-281	Abnormal Psychology	<u>3</u>	<u>0</u>	<u>3</u>
		15	2	16
<b>FIFTH SEMESTER (Spring)</b>				
CJC-141	Corrections	3	0	3
CJC-241	Community-Based Corrections	3	0	3
MAT-143	Quantitative Literacy (or higher)	***	***	3-4
PSY-231	Forensic Psychology	3	0	3
***	Humanities/Fine Arts Elective	3	0	3

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 APPLIED SCIENCE PROGRAMS
 

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***	Elective(s)	***	***	<u>2-3</u>
		***	***	17-19
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>68</u></b>

**Electives:** Choose a minimum of two (2) CREDITS from the following courses.

COM-231	Public Speaking	3	0	3
SOC-210	Introduction to Sociology	3	0	3
SOC-213	Sociology of the Family	3	0	3
SOC-220	Social Problems	3	0	3
SOC-230	Race and Ethnic Relations	3	0	3
SOC-242	Sociology of Deviance	3	0	3
WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1

## Criminal Justice Technology (C55180)

### Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CJC-111	Intro to Criminal Justice	3	0	3
CJC-112	Criminology	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b>SECOND SEMESTER (Spring)</b>				
CJC-121	Law Enforcement Operations	3	0	3
CJC-131	Criminal Law	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## Culinary Arts

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, wine appreciation, 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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

## Culinary Arts (A55150)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
CUL-110	Sanitation & Safety	2	0	2
CUL-110A	Sanitation & Safety Lab	0	2	1
CUL-140	Culinary Skills I	2	6	5
CUL-160	Baking I	1	4	3
MAT-110	Math Measurement & Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	15-16
<b>SECOND SEMESTER (Spring)</b>				
CUL-135	Food & Beverage Service	2	0	2
CUL-135A	Food & Beverage Serv Lab	0	2	1
CUL-240	Culinary Skills II	1	8	5
***	Humanities/Fine Arts Elective	3	0	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	14-15
<b>THIRD SEMESTER (Summer)</b>				
CUL-130	Menu Design	2	0	2
ENG-111	Writing and Inquiry	3	0	3
WBL-111	Work-Based Learning I <i><u>or</u></i>			
	Take WBL-112 Spring ONLY	0	***	0-1
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		8	***	8-9
<b>FOURTH SEMESTER (Fall)</b>				
CUL-170	Garde Manger I	1	4	3
CUL-214	Wine Appreciation	1	2	2
CUL-230	Global Cuisines	1	8	5
CUL-260	Baking II	1	4	3
ENG-112	Writing/Research in the Disc <i><u>or</u></i>			
ENG-114	Prof Research & Reporting	<u>3</u>	<u>0</u>	<u>3</u>
		7	18	16
<b>FIFTH SEMESTER (Spring)</b>				
CUL-112	Nutrition for Foodservice	3	0	3
CUL-120	Purchasing	2	0	2
CUL-245	Contemporary Cuisines	1	8	5
HRM-245	Human Resource Mgmt-Hosp	3	0	3
WBL-112	Work-Based Learning I <i><u>or</u></i>			

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 APPLIED SCIENCE PROGRAMS
 

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WBL-121	Work-Based Learning II	<u>0</u>	<u>***</u>	<u>1-2</u>
		9	***	14-15

**Total Required Minimum Semester Hours Credit** **68**

**Technical Electives:**

ACC-115	College Accounting	3	2	4
ACC-120	Prin of Financial Accounting	3	2	4
BPA-150	Artisan & Specialty Bread	1	6	4
BUS-115	Business Law	3	0	3
BUS-121	Business Math	3	0	3
BUS-139	Entrepreneurship	3	0	3
BUS-230	Small Business Management	3	0	3

### Culinary Arts (C55150R)

#### Restaurant Management Certificate

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CUL-110	Sanitation & Safety	2	0	2
CUL-110A	Sanitation & Safety Lab	0	2	1
CUL-135	Food & Beverage Service	2	0	2
CUL-135A	Food and Beverage Serv Lab	0	2	1
CUL-214	Wine Appreciation	<u>1</u>	<u>2</u>	<u>2</u>
		5	6	8
<b>SECOND SEMESTER (Spring)</b>				
CUL-112	Nutrition for Foodservice	3	0	3
CUL-120	Purchasing	2	0	2
HRM-245	Human Resource Mgmt-Hosp	<u>3</u>	<u>0</u>	<u>3</u>
		8	0	8
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

### Culinary Arts (C55150)

#### Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CUL-110	Sanitation & Safety	2	0	2
CUL-140	Culinary Skills I	2	6	5
CUL-170	Garde Manger I	<u>1</u>	<u>4</u>	<u>3</u>
		5	10	10
<b>SECOND SEMESTER (Spring)</b>				
CUL-160	Baking I	1	4	3
CUL-240	Culinary Skills II	<u>1</u>	<u>8</u>	<u>5</u>
		2	12	8
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

## Digital Media Technology

The Digital Media program prepares students for entry-level jobs in the digital design and multimedia industry. Students learn to synthesize multimedia, hypertext, computer programming, information architecture, and client/server technologies using both Internet and non-network-based media.

Students develop skills in communication, critical thinking, and problem solving as well as interface design, multimedia formats, application programming, data architecture, and client/server technologies. The program develops technical skills through practical applications that employ current and emerging standards and technologies.

Graduates should qualify for employment as web designers, graphic artists/designers, multimedia specialists, web developers, web content specialists, media specialists, information specialists, digital media specialists, animation specialists, interface designers, and many new jobs yet to be defined in this expanding field.

*This curriculum utilizes industry-standard software such as Adobe Creative Cloud™.*

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Digital Media Technology (A25210)

#### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
CIS-110	Introduction to Computers <u>or</u>			
CIS-111	Basic PC Literacy	***	***	2-3
CIS-115	Intro to Prog & Logic	2	3	3
DME-110	Intro to Digital Media	2	2	3
GRD-151	Computer Design Basics	1	4	3
WEB-110	Internet/Web Fundamentals	<u>2</u>	<u>2</u>	<u>3</u>
		***	***	15-16
<b>SECOND SEMESTER (Spring)</b>				
DME-120	Intro to Multimedia Appl	2	2	3
ENG-111	Writing and Inquiry	3	0	3
GRA-151	Computer Graphics I	1	3	2
GRD-121	Drawing Fundamentals I	1	3	2
WEB-111	Introduction to Web Graphics	2	2	3
WEB-115	Web Markup and Scripting	<u>2</u>	<u>2</u>	<u>3</u>
		11	12	16

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 APPLIED SCIENCE PROGRAMS
 

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**THIRD SEMESTER (Summer)**

DME-115	Graphic Design Tools	2	2	3
DME-140	Intro to Audio/Video Media	2	2	3
***	Technical Elective	***	***	<u>3</u>
		***	***	9

**FOURTH SEMESTER (Fall)**

DME-130	Digital Animation I	2	2	3
GRA-152	Computer Graphics II	1	3	2
GRD-167	Photographic Imaging I	1	4	3
MAT-143	Quantitative Literacy (or higher)	***	***	3-4
WEB-210	Web Design	2	2	3
***	Technical Elective	***	***	<u>3</u>
		***	***	17-18

**FIFTH SEMESTER (Spring)**

ENG-114	Prof Research and Reporting <i>or</i>			
COM-231	Public Speaking	3	0	3
DME-285	Systems Project	2	2	3
***	Social/Behavioral Sciences Elective	3	0	3
***	Humanities/Fine Arts Elective	3	0	3
***	Technical Elective	***	***	<u>3</u>
		***	***	15

**Total Required Minimum Semester Hours Credit** **72**

**Technical Electives:** Choose 9 credit hours from the following.

DME-210	User Interface Design	2	2	3
DME-215	Adv Graphic Design Tools	2	2	3
DME-220	Interactive Multimedia Prog	2	2	3
GRD-265	Digital Print Production	1	4	3
WEB-140	Web Development Tools	2	2	3
WEB-182	PHP Programming	2	2	3
WEB-211	Advanced Web Graphics	2	2	3
WEB-215	Adv Markup & Scripting (JavaScript)	2	2	3
WEB-225	Content Management Sys	2	2	3
WEB-285	Emerging Web Technologies	2	2	3
<b>These three WBL courses count as ONE technical elective</b>				
WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1
WBL-121	Work-Based Learning II	0	10	1

## Digital Media Technology (C25210DM)

### Certificate Program

The Digital Media Certificate is designed to develop digital media skills for the creation of Web-based materials and interactive products. Emphasis is placed on desktop production. Skills in editing, compositing and visual effects are developed using cutting edge software. The certificate also emphasizes the underlying theories of design and learning that are essential for high quality

products. This program is ideal for someone who has already earned a degree or is working in a related field who would like to update their skills.

A prerequisite to this certificate is the passing of a departmental computer skill competency exam or the completion of CIS-110 or CIS-111. Students may apply all coursework from this certificate program to the Associate Degree in Digital Media Technology.

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
DME-110	Intro to Digital Media	2	2	3
GRD-151	Computer Design Basics	<u>1</u>	<u>4</u>	<u>3</u>
		3	6	6
<b>SECOND SEMESTER (Spring)</b>				
DME-120	Intro to Multimedia Appl	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b>THIRD SEMESTER (Summer)</b>				
DME-140	Intro Audio/Video Media	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b>FOURTH SEMESTER (Fall)</b>				
DME-130	Digital Animation I	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b>FIFTH SEMESTER (Spring)</b>				
DME-220	Interactive Multimedia Prog	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

## Digital Media Technology (C25210PD)

### Print Design Certificate Program

With the availability of affordable publishing software for personal computers and low-cost printing devices, many individuals, businesses and organizations now produce their own print material in-house. Creating print material that is effective requires an understanding of key design elements. The Print Design Certificate is designed to develop the fundamental skills, techniques, and software knowledge necessary to conceive, lay out, and produce graphics and type for print media. Topics include design theory as well as hands-on projects.

A prerequisite to this certificate is the passing of a departmental computer skill competency exam or the completion of CIS-110 or CIS-111. Students may apply all coursework from this certificate program to the Associate Degree in Digital Media Technology.

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 APPLIED SCIENCE PROGRAMS
 

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		Course Hours Per Week		Semester Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
GRD-151	Computer Design Basics	1	4	3
GRD-167	Photographic Imaging I	$\frac{1}{2}$	$\frac{4}{8}$	$\frac{3}{6}$
<b>SECOND SEMESTER (Spring)</b>				
GRA-151	Computer Graphics I	$\frac{1}{1}$	$\frac{3}{3}$	$\frac{2}{2}$
<b>THIRD SEMESTER (Summer)</b>				
DME-115	Graphic Design Tools	$\frac{2}{2}$	$\frac{2}{2}$	$\frac{3}{3}$
<b>FOURTH SEMESTER (Fall)</b>				
GRA-152	Computer Graphics II	$\frac{1}{1}$	$\frac{3}{3}$	$\frac{2}{2}$
<b>FIFTH SEMESTER (Spring)</b>				
GRD-265	Digital Print Production	$\frac{1}{1}$	$\frac{4}{4}$	$\frac{3}{3}$
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## Digital Media Technology (C25210C1)

### Web Content Management Certificate Program

Many of today's Web sites contain dynamic interactive pages created in CMS (Content Management Systems) with content managed by databases. This certificate has as its goal the training of individuals in "client-side" programming skills to create effective database-driven Web sites. Topics also include learning HTML syntax to code pages, understanding how databases work, and developing actual projects utilizing the latest open source CMS.

A prerequisite to this certificate is the passing of a departmental computer skill competency exam or the completion of CIS-110 or CIS-111. Students may apply all coursework from this certificate program to the Associate Degree in Digital Media Technology.

		Course Hours Per Week		Semester Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
WEB-110	Internet/Web Fundamentals	2	2	3
WEB-182	PHP Programming	$\frac{2}{4}$	$\frac{2}{4}$	$\frac{3}{6}$
<b>SECOND SEMESTER (Spring)</b>				
WEB-115	Web Markup and Scripting	2	2	3
WEB-225	Content Management Sys	2	2	3



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 SANDHILLS COMMUNITY COLLEGE
 

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WEB-285	Emerging Web Technologies	<u>2</u>	<u>2</u>	<u>3</u>
		6	6	9
<b>THIRD SEMESTER (Summer)</b>				
WEB-215	Adv Markup & Scripting (JavaScript)	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

## Digital Media Technology (C25210D)

### Web Design Certificate Program

In today's world, a Web presence is becoming increasingly vital. However, it is just as important to understand what happens behind current software applications as well as online design principles and standards. This certificate covers Web page creation from hand coding to understanding how to best utilize Web creation software. Web design theory is stressed from the creation and manipulation of graphics on industry-standard software through optimization for the Web to actual hands-on projects.

A prerequisite to this certificate is the passing of a departmental computer skill competency exam or the completion of CIS-110 or CIS-111. Students may apply all coursework from this certificate program to the Associate Degree in Digital Media Technology.

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
GRD-151	Computer Design Basics	1	4	3
WEB-110	Internet/Web Fundamentals	<u>2</u>	<u>2</u>	<u>3</u>
		3	6	6
<b>SECOND SEMESTER (Spring)</b>				
WEB-111	Intro to Web Graphics	2	2	3
WEB-115	Web Markup and Scripting	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>THIRD SEMESTER (Fall)</b>				
WEB-140	Web Development Tools	2	2	3
WEB-210	Web Design	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

## Early Childhood Education

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

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 APPLIED SCIENCE PROGRAMS
 

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Course work includes child growth and development, physical/nutritional needs of children, care and guidance of children, and communication skills with families 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.

### Early Childhood Education (A55220E)

#### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
EDU-119	Intro to Early Child Educ	4	0	4
EDU-144	Child Development I	3	0	3
EDU-151	Creative Activities	3	0	3
EDU-157	Active Play	<u>2</u>	<u>2</u>	<u>3</u>
		12	4	14
<b>SECOND SEMESTER (Spring)</b>				
EDU-145	Child Development II	3	0	3
EDU-146	Child Guidance	3	0	3
EDU-234	Infants, Toddlers, & Twos	3	0	3
EDU-251	Exploration Activities	3	0	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		15	0	15
<b>THIRD SEMESTER (Summer)</b>				
EDU-153	Health, Safety & Nutrition	3	0	3
EDU-***	EDU Elective	***	***	2-3
***	Social/Behavioral Science Elective	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	8-9
<b>FOURTH SEMESTER (Fall)</b>				
EDU-131	Child, Family & Community	3	0	3
EDU-235	School-Age Develop and Programs	3	0	3
EDU-259	Curriculum Planning	3	0	3
EDU-280	Language/Literacy Experiences	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		15	0	15
<b>FIFTH SEMESTER (Spring)</b>				
EDU-221	Children with Exceptionalities	3	0	3
EDU-284	Early Child Capstone Prac	1	9	4
***	Communication Elective	3	0	3

***	Natural Science/Math Elective	***	***	<u>3-5</u>
		***	***	13-15

**Total Required Minimum Semester Hours Credit** **65**

**Electives:**

EDU-184	Early Child Intro Pract	1	3	2
EDU-271	Educational Technology	2	2	3
EDU-275	Effective Teach Train	2	0	2

## Early Childhood Education – Birth-Kindergarten Licensure Transfer (A55220L)

### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success and Study Skills	0	2	1
EDU-119	Intro to Early Child Educ	4	0	4
EDU-144	Child Development I	3	0	3
EDU-151	Creative Activities	3	0	3
PSY-150	General Psychology	3	0	3
***	Social/Behavioral Science Elective*	<u>3</u>	<u>0</u>	<u>3</u>
		16	2	17
<b>SECOND SEMESTER (Spring)</b>				
EDU-145	Child Development II	3	0	3
EDU-146	Child Guidance	3	0	3
EDU-234	Infants, Toddlers, & Twos	3	0	3
BIO-110	Principles of Biology <i>or</i>			
BIO-111	General Biology I	3	3	4
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		15	3	16
<b>THIRD SEMESTER (Summer)</b>				
EDU-153	Health, Safety & Nutrition	3	0	3
MAT-143	Quantitative Literacy	2	2	3
***	Humanities/Fine Arts Elective*	<u>3</u>	<u>0</u>	<u>3</u>
		8	2	9
<b>FOURTH SEMESTER (Fall)</b>				
EDU-131	Child, Family & Community	3	0	3
EDU-216	Foundations of Education	3	0	3
EDU-280	Language/Literacy Experiences	3	0	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
***	Natural Science Elective*	<u>***</u>	<u>***</u>	<u>4</u>
		***	***	16
<b>FIFTH SEMESTER (Spring)</b>				
COM-231	Public Speaking	3	0	3
EDU-221	Children with Exceptionalities	3	0	3

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 APPLIED SCIENCE PROGRAMS
 

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EDU-250	Praxis I Preparation	3	0	3
EDU-284	Early Child Capstone Prac	$\frac{1}{10}$	$\frac{9}{9}$	$\frac{4}{13}$
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>71</u></b>

**Social/Behavioral Science Elective list:**

ECO-251, ECO-252, HIS-111, HIS-112, HIS-131, HIS-132, POL-120, SOC-210

**Natural Science Elective list:**

AST-111 and AST-111A, CHM-151, GEL-111, PHY-110 and PHY-110A

**Humanities/Fine Arts Elective list:**

ART-111, ART-114, ART-115, MUS-110, MUS-112, PHI-215, PHI-240

## Early Childhood Education – Non-Teaching Licensure Transfer (A55220NL)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success and Study Skills	0	2	1
EDU-119	Intro to Early Child Educ	4	0	4
EDU-144	Child Development I	3	0	3
EDU-151	Creative Activities	3	0	3
PSY-150	General Psychology	3	0	3
***	Social/Behavioral Science Elective*	$\frac{3}{16}$	$\frac{0}{2}$	$\frac{3}{17}$
<b>SECOND SEMESTER (Spring)</b>				
BIO-110	Principles of Biology <i>or</i>			
BIO-111	General Biology I	3	3	4
EDU-145	Child Development II	3	0	3
EDU-146	Child Guidance	3	0	3
EDU-234	Infants, Toddlers, & Twos	3	0	3
ENG-111	Writing & Inquiry	$\frac{3}{15}$	$\frac{0}{3}$	$\frac{3}{16}$
<b>THIRD SEMESTER (Summer)</b>				
EDU-153	Health, Safety & Nutrition	3	0	3
MAT-143	Quantitative Literacy	2	2	3
***	Humanities/Fine Arts Elective*	$\frac{3}{8}$	$\frac{0}{2}$	$\frac{3}{9}$
<b>FOURTH SEMESTER (Fall)</b>				
EDU-131	Child, Family & Community	3	0	3
EDU-261	Early Childhood Admin I	3	0	3
EDU-280	Language/Literacy Experiences	3	0	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
***	Natural Science Elective*	$\frac{***}{***}$	$\frac{***}{***}$	$\frac{4}{16}$

**FIFTH SEMESTER (Spring)**

COM-231	Public Speaking	3	0	3
EDU-221	Children with Exceptionalities	3	0	3
EDU-262	Early Childhood Admin II	3	0	3
EDU-284	Early Child Capstone Prac	<u>1</u>	<u>2</u>	<u>4</u>
		10	9	13

**Total Required Minimum Semester Hours Credit** **71**

**Social/Behavioral Science Elective list:**

ECO-251, ECO-252, HIS-111, HIS-112, HIS-131, HIS-132, POL-120, SOC-210

**Natural Science Elective list:**

AST-111 and AST-111A, CHM-151, GEL-111, PHY-110 and PHY-110A

**Humanities/Fine Arts Elective list:**

ART-111, ART-114, ART-115, MUS-110, MUS-112, PHI-215, PHI-240

**Early Childhood Education (C55220IT)****Infant/Toddler Care Certificate Program**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
EDU-119	Intro to Early Child Educ	4	0	4
EDU-131	Child, Family & Community	3	0	3
EDU-144	Child Development I	<u>3</u>	<u>0</u>	<u>3</u>
		10	0	10
<b>SECOND SEMESTER (Spring)</b>				
EDU-146	Child Guidance	3	0	3
EDU-234	Infant, Toddlers, & Twos	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

**Early Childhood Education (C55220PC)****Preschool Certificate Program**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
EDU-119	Intro to Early Child Educ	4	0	4
EDU-131	Child, Family & Community	3	0	3
EDU-157	Active Play	<u>2</u>	<u>2</u>	<u>3</u>
		9	2	10
<b>SECOND SEMESTER (Spring)</b>				
EDU-145	Child Development II	3	0	3
EDU-146	Child Guidance	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## Early Childhood Education (C55220S)

### School Age Care Certificate Program

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
EDU-119	Intro to Early Child Educ	4	0	4
EDU-157	Active Play	2	2	3
EDU-235	School-Age Develop and Programs	<u>3</u>	<u>0</u>	<u>3</u>
		9	2	10
<b>SECOND SEMESTER (Spring)</b>				
EDU-145	Child Development II	3	0	3
EDU-146	Child Guidance	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## Emergency Medical Science

The Emergency Medical Science curriculum provides individuals with the knowledge, skills and attributes to provide advanced emergency medical care as a paramedic 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.

*The Emergency Medical Services – Paramedic program at Sandhills Community College is accredited by the Commission of Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee of Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).*

Commission on Accreditation of Allied Health Education Programs  
25400 US Hwy 19 N., Suite 158  
Clearwater, FL 33763  
727-210-2350  
www.caahep.org

To contact CoAEMSP:

8301 Lakeview Parkway Suite 111-312  
 Rowlett, TX 75088  
 214-703-8445  
 FAX 214-703-8992  
 www.coaemsp.org

## Emergency Medical Science (A45340)

### Associate in Applied Science Degree Program

		Course Hours Per Week			Semester
		Class	Lab	Clinical	Hours Credit
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
BIO-165	Anatomy and Physiology I	3	3	0	4
EMS-110	EMT	6	6	3	9
MED-120	Survey of Med Terminology	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		11	11	3	16
<b>SECOND SEMESTER (Spring)</b>					
BIO-166	Anatomy and 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	Advanced Airway Management	1	2	0	2
EMS-160	Cardiology I	2	3	0	3
EMS-210	Adv Patient Assessment	1	3	0	2
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		13	14	3	19
<b>THIRD SEMESTER (Summer)</b>					
EMS-220	Cardiology II	2	3	0	3
EMS-221	EMS Clinical Practicum II	0	0	6	2
EMS-260	Trauma Emergencies	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		3	6	6	7
<b>FOURTH SEMESTER (Fall)</b>					
EMS-231	EMS Clinical Pract III	0	0	9	3
EMS-240	Patients W/ Special Challenges	1	2	0	2
EMS-250	Medical Emergencies	3	3	0	4
EMS-270	Life Span Emergencies	3	3	0	4
ENG-112	Writing/Research in the Disc <i>or</i>				
ENG-114	Prof Research & Reporting	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		10	8	9	16
<b>FIFTH SEMESTER (Spring)</b>					
EMS-241	EMS Clinical Practicum IV	0	0	12	4
EMS-285	EMS Capstone	1	3	0	2
EMS-***	EMS Elective	***	***	***	2
***	Humanities/Fine Arts Elective	3	0	0	3
***	Social/Behavioral Science Elective**	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		***	***	***	14
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>72</u></b>

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 APPLIED SCIENCE PROGRAMS
 

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**Select one of the following for Social/Behavioral Science Elective:**

PSY-118	Interpersonal Psychology	3	0	0	3
PSY-150	General Psychology	3	0	0	3
SOC-210	Introduction to Sociology	3	0	0	3
SOC-220	Social Problems	3	0	0	3
SOC-225	Social Diversity	3	0	0	3

**Select one of the following for EMS Elective:**

EMS-115	Defense Tactics for EMS	1	3	0	2
EMS-125	EMS Instructor Methodology	2	2	0	3
EMS-140	Rescue Scene Management	1	3	0	2
EMS-150	Emergency Vehicles & EMS Comm	1	3	0	2
EMS-235	EMS Management	2	0	0	2
EMS-243	Wilderness EMT	1	2	0	2

*Note: Other courses from the Social/Behavioral Science offerings may be approved pending review by the Dean of Instruction.*

## Emergency Medical Science (D45340)

### Diploma Program

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success and Study Skills	0	2	0	1
BIO-163	Basic Anat and Physiology	4	2	0	5
EMS-110	EMT	6	6	3	9
MED-120	Survey of Med Terminology	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		12	10	3	17
<b>SECOND SEMESTER (Spring)</b>					
EMS-122	EMS Clinical Practicum I	0	0	3	1
EMS-130	Pharmacology	3	3	0	4
EMS-131	Advanced Airway Management	1	2	0	2
EMS-160	Cardiology I	2	3	0	3
EMS-210	Adv Patient Assessment	1	3	0	2
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		10	11	3	15
<b>THIRD SEMESTER (Summer)</b>					
EMS-220	Cardiology II	2	3	0	3
EMS-221	EMS Clinical Practicum II	0	0	6	2
EMS-260	Trauma Emergencies	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		3	6	6	7
<b>FOURTH SEMESTER (Fall)</b>					
EMS-231	EMS Clinical Pract III	0	0	9	3
EMS-240	Patients W/ Special Challenges	1	2	0	2
EMS-250	Medical Emergencies	3	3	0	4
EMS-270	Life Span Emergencies	<u>3</u>	<u>3</u>	<u>0</u>	<u>4</u>
		7	8	9	13



**FIFTH SEMESTER (Spring)**

EMS-140	Rescue Scene Management	1	3	0	2
EMS-241	EMS Clinical Practicum IV	0	0	12	4
EMS-285	EMS Capstone	<u>1</u>	<u>3</u>	<u>0</u>	<u>2</u>
		2	6	12	8
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>60</u></b>

**Emergency Medical Science (C45340)****Advanced EMT Certificate Program**

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
<b>FIRST SEMESTER (Fall)</b>					
EMS-110	EMT	<u>6</u>	<u>6</u>	<u>3</u>	<u>9</u>
		6	6	3	9
<b>SECOND SEMESTER (Spring)</b>					
EMS-120	Advanced EMT	4	6	0	6
EMS-121	AEMT Clinical Practicum	<u>0</u>	<u>0</u>	<u>6</u>	<u>2</u>
		4	6	6	8
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>17</u></b>

**Emergency Medical Science Bridging**

EMS Bridging Students will be required to complete the EMS Bridging Course, selected courses from the core curriculum, and general education courses. 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.

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
BIO-165	Anatomy and Physiology I	3	3	0	4
BIO-166	Anatomy and Physiology II	3	3	0	4
EMS-280	EMS Bridging Course	2	2	0	3
ENG-111	Writing and Inquiry	3	0	0	3
ENG-114	Prof Research & Reporting	3	0	0	3
***	EMS Directed Elective**	***	3	0	3-4
***	Humanities/Fine Arts Elective	3	0	0	3
***	Social/Behavioral Science Elective**	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		***	11	0	26-27
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>26</u></b>

**Select one of the following for Social/Behavioral Science Elective:**

PSY-118	Interpersonal Psychology	3	0	0	3
PSY-150	General Psychology	3	0	0	3
SOC-210	Introduction to Sociology	3	0	0	3
SOC-220	Social Problems	3	0	0	3

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 APPLIED SCIENCE PROGRAMS
 

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SOC-225	Social Diversity	3	0	0	3
<b>Select one of the following for EMS Directed Elective:</b>					
EMS-220	Cardiology II	2	3	0	3
EMS-250	Medical Emergencies	3	3	0	4
EMS-270	Life Span Emergencies	3	3	0	4

*Note: Other courses from the Social/Behavioral Science offerings may be approved pending review by the Dean of Instruction.*

## Finance (see Accounting and Finance)

### Fire Protection Technology

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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Fire Protection Technology (A55240)

#### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
CIS-110	Introduction to Computers	2	2	3
ENG-111	Writing and Inquiry	3	0	3
FIP-120	Intro to Fire Protection	3	0	3
FIP-124	Fire Prevention & Public Ed	3	0	3
FIP-136	Inspections and Codes	3	0	3
		14	4	16

**SECOND SEMESTER (Spring)**

FIP-132	Building Construction	3	0	3
FIP-152	Fire Protection Law	3	0	3
FIP-220	Fire Fighting Strategies	3	0	3
FIP-228	Local Govt Finance	3	0	3
MAT-143	Quantitative Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	15-16

**THIRD SEMESTER (Summer)**

ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6

**FOURTH SEMESTER (Fall)**

EPT-140	Emergency Management	3	0	3
FIP-224	Fire Instructor I & II	4	0	4
FIP-230	Chem of Hazardous Mat I	5	0	5
FIP-232	Hydraulics and Water Dist	2	2	3
WBL-111	Work-Based Learning I	<u>0</u>	<u>10</u>	<u>1</u>
		14	12	16

**FIFTH SEMESTER (Spring)**

FIP-240	Fire Service Supervision	3	0	3
FIP-256	Munic Public Relations	3	0	3
FIP-276	Managing Fire Services	3	0	3
PSY-150	General Psychology <i>or</i>			
SOC-210	Introduction to Sociology	3	0	3
WBL-121	Work-Based Learning II	<u>0</u>	<u>10</u>	<u>1</u>
		12	10	13

**Total Required Minimum Semester Hours Credit** **66**

## Geomatics Technology

**Engineering and Technology Pathway:** These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

**Geomatics Technology:** 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

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 APPLIED SCIENCE PROGRAMS
 

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information systems, and other kinds of property description and measurement to create related maps, charts and reports.

Includes instruction in applied geodesy, computer graphics, photointerpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography.

Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyor in North Carolina.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Geomatics Technology (A40420)

#### Associate in Applied Science Degree Program

#### (Formerly Surveying Technology)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
BPR-130	Print Reading-Construction	3	0	3
CEG-210	Construction Mtls & Methods	2	3	3
CIS-111	Basic PC Literacy	1	2	2
EGR-110	Intro to Engineering Tech <u>or</u>			
EGR-150	Intro to Engineering	1	2	2
EGR-115	Intro to Technology	2	3	3
EGR-115A	Intro to Technology Lab	0	3	1
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		12	15	18
<b>SECOND SEMESTER (Spring)</b>				
CEG-111	Intro to GIS and GNSS	2	4	4
CEG-235	Project Management/Estimating	2	3	3
EGR-120	Eng and Design Graphics	2	2	3
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
MAT-121	Algebra/Trigonometry I <u>or</u>			
MAT-171	Precalculus Algebra	***	***	<u>3-4</u>
		***	***	16-17
<b>THIRD SEMESTER (Summer)</b>				
EGR-251	Statics	2	2	3
SRV-110	Surveying I	2	6	4
***	Physics Elective	<u>3</u>	***	<u>4</u>
		7	***	11

**FOURTH SEMESTER (Fall)**

CEG-211	Hydrology and Erosion Control	2	3	3
SRV-111	Surveying II	2	6	4
SRV-220	Surveying Law	2	2	3
***	Humanities/Fine Arts Elective	3	0	3
***	Directed Elective	***	***	<u>3-4</u>
		***	***	16-17

**FIFTH SEMESTER (Spring)**

CEG-230	Subdivision Planning & Design	1	6	3
SRV-210	Surveying III	2	6	4
SRV-240	Topo/Site Surveying	2	6	4
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		8	18	14
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>75</u></b>

**Physics Electives:**

PHY-131	Physics-Mechanics	3	2	4
PHY-151	College Physics I	3	2	4
PHY-251	General Physics I	3	3	4

**Directed Electives:**

CIV-111	Soils and Foundations	2	4	4
MAT-172	Precalculus Trigonometry	3	2	4
MAT-263	Brief Calculus	3	2	4
MAT-271	Calculus I	3	2	4
MAT-272	Calculus II	3	2	4
WBL-111	Work-Based Learning I	0	10	1
WBL-112	Work-Based Learning I	0	20	2
WBL-113	Work-Based Learning I	0	30	3
WBL-121	Work-Based Learning II	0	10	1
WBL-122	Work-Based Learning II	0	20	2

**Geomatics Technology (C40420)****Certificate Program**

		<b>Course Hours</b>		<b>Semester Hours Credit</b>
		<b>Per Week</b>	<b>Per Week</b>	
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
BPR-130	Print Reading-Construction	3	0	3
EGR-115	Intro to Technology	2	3	3
EGR-115A	Intro to Technology Lab	<u>0</u>	<u>3</u>	<u>1</u>
		5	6	7
<b>SECOND SEMESTER (Spring)</b>				
CEG-111	Intro to GIS and GNSS	2	4	4
EGR-120	Eng and Design Graphics	<u>2</u>	<u>2</u>	<u>3</u>
		4	6	7
<b>THIRD SEMESTER (Summer)</b>				
SRV-110	Surveying I	<u>2</u>	<u>6</u>	<u>4</u>
		2	6	4
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

## Golf Course Management

**Plant Systems Pathway:** These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

**Golf Course Management Technology:** A program that prepares individuals to manage the operation of golf courses. Potential course work includes instruction in turf grass science and management, golf course design and construction, grounds equipment and operation, pest control, and grounds management.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Golf Course Management (A15230)

#### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ENG-111	Writing and Inquiry	3	0	3
LSG-111	Basic Landscape Technique	2	0	2
LSG-121	Fall Gardening Lab	0	6	2
MAT-110	Math Measurement & Literacy (or higher)	***	***	3-4
PED-128	Golf-Beginning <i>or</i>			
PED-129	Golf-Intermediate	0	2	1
SPA-111	Elementary Spanish I (or higher)	3	0	3
WBL-110	World of Work	<u>1</u>	<u>0</u>	<u>1</u>
		***	***	16-17
<b>SECOND SEMESTER (Spring)</b>				
GCM-110	Golf Course Shop Mgmt	3	0	3

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GCM-220	Golf Course Maint Systems	3	0	3
HOR-166	Soils & Fertilizers	2	2	3
TRF-110	Intro Turfgrass Cult & ID	3	2	4
TRF-130	Native Flora ID <u>or</u>			
HOR-160	Plant Materials I	***	***	2-3
WBL-111	Work-Based Learning I	<u>0</u>	<u>10</u>	<u>1</u>
		***	***	16-17
<b>THIRD SEMESTER (Summer)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
HOR-164	Hort Pest Management	2	2	3
HOR-162	Applied Plant Science <u>or</u>			
HOR-114	Landscape Construction <u>or</u>			
BIO-111	General Biology I <u>or</u>			
CHM-151	General Chemistry I	***	***	3-4
WBL-121	Work-Based Learning II	<u>0</u>	<u>10</u>	<u>1</u>
		***	***	10-11
<b>FOURTH SEMESTER (Fall)</b>				
GCM-230	Golf Course Org and Admin	3	0	3
GCM-240	Golf Course Design	3	0	3
TRF-120	Turfgrass Irrigat and Design	2	4	4
TRF-230	Turfgrass Mgmt Apps	1	2	2
TRF-260	Adv Turfgrass Mgmt	3	2	4
WBL-131	Work-Based Learning III	<u>0</u>	<u>10</u>	<u>1</u>
		12	18	17
<b>FIFTH SEMESTER (Spring)</b>				
GCM-244	Advanced Issues/GCM	2	0	2
WBL-214	Work-Based Learning IV	0	40	4
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		8	40	12
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>71</u></b>

## Golf Course Management (C15230)

## Certificate Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
LSG-111	Basic Landscape Technique	2	0	2
LSG-121	Fall Gardening Lab	0	6	2
MAT-110	Math Measurement & Literacy (or higher)	***	***	<u>3-4</u>
		***	***	8-9
<b>SECOND SEMESTER (Spring)</b>				
TRF-110	Intro Turfgrass Cult & ID	3	2	4
TRF-130	Native Flora ID <u>or</u>			
HOR-160	Plant Materials I	***	***	<u>2-3</u>

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 APPLIED SCIENCE PROGRAMS
 

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	***	***	6-7
<b><u>Total Required Minimum Semester Hours Credit</u></b>			<b><u>14</u></b>

## Health and Fitness Science

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry.

Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities.

Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Health and Fitness Science (A45630)

#### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ENG-111	Writing and Inquiry	3	0	3
HFS-110	Exercise Science	4	0	4
HFS-111	Fitness & Exer Testing I	3	2	4
MED-120	Survey of Med Terminology	2	0	2
PED-113	Aerobics I	<u>0</u>	<u>3</u>	<u>1</u>
		12	7	15
<b>SECOND SEMESTER (Spring)</b>				
BIO-155	Nutrition	3	0	3
ENG-114	Prof Research & Reporting <i>or</i>			
COM-231	Public Speaking	3	0	3
HFS-116	Pvnt & Care Exer Injuries	2	2	3
HFS-118	Fitness Facility Mgmt	4	0	4
MAT-143	Quantitative Literacy (or higher)	***	***	3-4
PED-117	Weight Training I	<u>0</u>	<u>3</u>	<u>1</u>
		***	***	17
<b>THIRD SEMESTER (Summer)</b>				
HEA-112	First Aid & CPR	1	2	2
PSY-150	General Psychology	3	0	3



***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		7	2	8
<b>FOURTH SEMESTER (Fall)</b>				
BIO-165	Anatomy and Physiology I	3	3	4
BUS-139	Entrepreneurship I <i>or</i>			
BUS-230	Small Business Management	3	0	3
HFS-212	Exercise Programming	2	2	3
HFS-218	Lifestyle Chng & Wellness	3	2	4
PED-118	Weight Training II	0	3	1
WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	<u>1</u>	<u>0</u>	<u>1</u>
		12	20	17
<b>FIFTH SEMESTER (Spring)</b>				
BIO-166	Anatomy and Physiology II	3	3	4
HFS-120	Group Exer Instruction	2	2	3
HFS-210	Personal Training	2	2	3
HFS-214	Health and Fitness Law	3	0	3
PED-122	Yoga I <i>or</i>			
PED-217	Pilates I	0	2	1
WBL-121	Work-Based Learning II	<u>0</u>	<u>10</u>	<u>1</u>
		10	19	15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>72</u></b>

## Health and Fitness Science (C45630)

### Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
HEA-112	First Aid & CPR	1	2	2
HFS-110	Exercise Science	4	0	4
HFS-111	Fitness & Exercise Testing I	<u>3</u>	<u>2</u>	<u>4</u>
		8	4	10
<b>SECOND SEMESTER (Spring)</b>				
HFS-120	Group Exer Instruction	2	2	3
HFS-210	Personal Training	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## Health Information Technology

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.

*This program is an NCCCS partner program delivered under an Instructional Service Agreement that allows SCC to offer general education courses related to degree completion, but Pitt Community College awards the degree.*

*Because the use of computers is integral to this curriculum, some courses are delivered in an online hybrid format.*

### **Pitt CC/Sandhills CC Partner Program**

Pitt Community College (PCC) has entered into a unique learning partnership with SCC to provide SCC students the opportunity to complete up to 34 credit hours at SCC to be used toward completion of the 75-hour A.A.S. in the PCC Health Information Technology program.

Students accepted into this program can explore two options:

1. Complete the 34 hours of general requirements prior to application to the program, or
2. Complete some or all of those courses at SCC while concurrently enrolled in the PCC program online.

**PLEASE NOTE:** Entry into the HIT program is contingent upon PCC requirements and acceptance. Application to the program must be made with PCC.

*The Health Information Technology Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).*

**Health Information Technology (A45360)****Associate in Applied Science Degree Program**

<b>SCC Courses</b>		<b>PCC Courses</b>	
<b>Course Prefix, Number, and Title</b>	<b>Credit Hours</b>	<b>Course Prefix, Number, and Title</b>	<b>Credit Hours</b>
ACA-115 Success & Study Skills (Substitute for ACA-111)	1	HSC-110** Orientation to Health Careers	1
*BIO-165 Anatomy & Physiology I (Substitute for BIO-168)	4	HIT-110 Fundamentals of HIM	3
*BIO-166 Anatomy & Physiology II (Substitute for BIO-169)	4	HIT-112 Health Law & Ethics	3
CIS-110 Introduction to Computers	3	HIT-114 Health Data Systems Standards	3
ENG-111 Writing and Inquiry	3	HIT-124 Prof Practice Experience II	1
ENG-112 Writing/Research in the Disc***	3	HIT-210 Healthcare Statistics	3
HUM-115 Critical Thinking	3	HIT-211 ICD Coding	4
MAT-143 Quantitative Literacy (or higher)	3-4	HIT-214 CPT/Other Coding Systems	2
MED-121 Medical Terminology I****	3	HIT-215 Reimbursement Methodology	2
MED-122 Medical Terminology II	3	HIT-216 Quality Management	2
OST-248* Diagnostic Coding	3	HIT-218 Management Principles in HIT	3
PSY-150 General Psychology	3	HIT-220 Health Informatics & EHRs	2
		HIT-221 Lifecycle of EHR	3
		HIT-224 Prof Practice Experience IV	2
		HIT-225 Healthcare Informatics	4
		HIT-226 Principles of Diseases	2
		HIT-280 Professional Issues	2
	<b>36</b>		<b>41-42</b>

\*OST 248 should be taken after acceptance into Health Information Technology program

\*\*Course is encouraged but not required.

\*\*\*Approved substitutions are COM-110, COM-120, COM-231 or ENG-114

\*\*\*\*OST-141 may not be substituted for this course

*For more information on this unique offering, contact: Nevius Toney at [toneyn@sandhills.edu](mailto:toneyn@sandhills.edu) or 910-695-3752.*

## Human Services Technology

(No new students will be accepted into this program for Fall 2019 or Spring 2020. This program will end Spring 2020.)

The Human Services Technology Curriculum prepares students for entry-level positions in institutions and agencies that provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human services 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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Human Services Technology (A45380)

#### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
HSE-110	Intro to Human Services	2	2	3
HSE-123	Interviewing Techniques	2	2	3
PSY-150	General Psychology	3	0	3
SOC-210	Introduction to Sociology	<u>3</u>	<u>0</u>	<u>3</u>
		10	6	13
<b>SECOND SEMESTER (Spring)</b>				
ENG-111	Writing and Inquiry	3	0	3
HSE-112	Group Process I	1	2	2
HSE-125	Counseling	2	2	3
PSY-241	Developmental Psych	3	0	3
SOC-220	Social Problems	<u>3</u>	<u>0</u>	<u>3</u>
		12	4	14
<b>THIRD SEMESTER (Summer)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			

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ENG-114	Prof Research & Reporting	3	0	3
GRO-120	Gerontology	3	0	3
PSY-281	Abnormal Psychology	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>3</u>
		12	0	12
<b>FOURTH SEMESTER (Fall)</b>				
PSY-141	Psych of Death and Dying	3	0	3
PSY-239	Psychology of Personality	3	0	3
SAB-110	Substance Abuse Overview	3	0	3
WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1
***	Natural Sciences/Math Elective	***	***	<u>3-5</u>
		***	***	14-16
<b>FIFTH SEMESTER (Spring)</b>				
HSE-210	Human Services Issues	2	0	2
HSE-225	Crisis Intervention	3	0	3
PSY-255	Intro to Exceptionality	3	0	3
PSY-265	Behavioral Modification	3	0	3
***	Major Elective(s)			
	HEA-112 First Aid & CPR <i>or</i>			
	SOC-213 Sociology of the Family			
	<i>or</i>			
	WBL-121 and WBL-125	***	***	<u>2-3</u>
		***	***	13-14
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>66</u></b>

### Human Services Technology Substance Abuse

(No new students will be accepted into this program for Fall 2019 or Spring 2020. This program will end Spring 2020.)

The Human Services Technology/Substance Abuse concentration prepares students to assist in drug and alcohol counseling, prevention-oriented educational activities, rehabilitation with recovering clients, managing community-based programs, counseling in residential facilities, and pursuit of four-year degrees.

Course work includes classroom and experiential activities oriented toward an overview of chemical dependency, psychological/sociological process, the twelve Core Functions, intervention techniques with individuals in groups, and follow-up activities with recovering clients.

Graduates should qualify for positions as substance abuse counselors, DUI counselors, halfway house workers, residential facility employees, and substance education specialists. With educational and clinical experiences, graduates can obtain certification by the North Carolina Substance Abuse Board.

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*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

## Human Services Technology Substance Abuse (A4538E)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
HSE-110	Intro to Human Services	2	2	3
HSE-123	Interviewing Techniques	2	2	3
PSY-150	General Psychology	3	0	3
SAB-110	Substance Abuse Overview	3	0	3
SAB-135	Addictive Process	<u>3</u>	<u>0</u>	<u>3</u>
		13	6	16
<b>SECOND SEMESTER (Spring)</b>				
ENG-111	Writing and Inquiry	3	0	3
HSE-112	Group Process I	1	2	2
HSE-125	Counseling	2	2	3
SAB-120	Intake and Assessment	3	0	3
SAB-210	Sub Abuse Counseling	<u>2</u>	<u>2</u>	<u>3</u>
		11	6	14
<b>THIRD SEMESTER (Summer)</b>				
PSY-241	Developmental Psych	3	0	3
SAB-125	SA Case Management	2	2	3
SAB-240	Sab Issues in Client Serv	3	0	3
SOC-210	Introduction to Sociology	<u>3</u>	<u>0</u>	<u>3</u>
		11	2	12
<b>FOURTH SEMESTER (Fall)</b>				
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
PSY-281	Abnormal Psychology	3	0	3
SAB-230	Family Therapy	2	2	3
WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1
***	Natural Sciences/Math Electives	<u>***</u>	<u>***</u>	<u>3-5</u>
		***	***	14-16
<b>FIFTH SEMESTER (Spring)</b>				
HSE-210	Human Services Issues	2	0	2
HSE-225	Crisis Intervention	3	0	3
SOC-220	Social Problems	3	0	3
***	Humanities/Fine Arts Elective	3	0	3
***	Major Elective(s)			

HEA-112 First Aid & CPR *or*  
 SOC-213 Sociology of the Family

*or*

WBL-121 and WBL-125

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2-3

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13-14

**Total Required Minimum Semester Hours Credit**

**69**

## Industrial Systems Technology

*This program is only offered at the Hoke County Campus.*

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

*\*Students may receive credit by exam for these courses once they complete the Industrial certifications through Continuing Education.*

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

## Industrial Systems Technology (A50240)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ISC-121	Envir Health & Safety*	3	0	3
ISC-130	Intro to Quality Control*	3	0	3
***	Humanities/Fine Arts Elective	3	0	3

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***	Social/Behavioral Sciences Elective	3	0	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>2-4</u>
		***	***	15-17
<b>SECOND SEMESTER (Spring)</b>				
BPR-111	Print Reading*	1	2	2
ENG-111	Writing and Inquiry	3	0	3
ISC-243	Prod & Oper Management I*	2	3	3
MAT-110	Math Measurement & Literacy (or higher)	***	***	3-4
MNT-110	Intro to Maint Procedures*	1	3	2
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	16-17
<b>THIRD SEMESTER (Summer)</b>				
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
HYD-110	Hydraulics/Pneumatics I	2	3	3
WLD-112	Basic Welding Processes	<u>1</u>	<u>3</u>	<u>2</u>
		6	6	8
<b>FOURTH SEMESTER (Fall)</b>				
ELC-131	Circuit Analysis I	3	3	4
MAC-111	Machining Technology I	2	12	6
MNT-165	Mechanical Industrial Systems	1	3	2
MNT-230	Pumps & Piping Systems	1	3	2
***	Technical Elective	<u>***</u>	<u>***</u>	<u>2-4</u>
		***	***	16-18
<b>FIFTH SEMESTER (Spring)</b>				
BPR-115	Elc/Fluid Power Diagrams	1	2	2
MAC-112	Machining Technology II	2	12	6
MAC-121	Intro to CNC	2	0	2
***	Technical Elective	***	***	3-4
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	16-18
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>71</u></b>

**Technical Electives: Take 13 credits**

ELC-115	Industrial Wiring	2	6	4
ELC-117	Motors and Controls	2	6	4
ELC-128	Intro to PLC	2	3	3
ELC-215	Electrical Maintenance	2	3	3
MAC-122	CNC Turning	1	3	2
MNT-130	Control Systems	2	4	4
MNT-240	Indust Equip Troubleshoot	1	3	2
NET-125	Introduction to Networks	1	4	3
PKG-110	Pkg Machinery I	1	4	3



**Industrial Systems Technology (D50240)****Diploma Program**

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ISC-121	Envir Health & Safety	3	0	3
ISC-130	Intro to Quality Control	3	0	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		9	2	10
<b>SECOND SEMESTER (Spring)</b>				
BPR-111	Print Reading	1	2	2
ENG-111	Writing and Inquiry	3	0	3
ISC-243	Prod & Oper Management I	2	3	3
MNT-110	Intro to Maint Procedures	<u>1</u>	<u>3</u>	<u>2</u>
		7	8	10
<b>THIRD SEMESTER (Summer)</b>				
HYD-110	Hydraulics/Pneumatics I	2	3	3
WLD-112	Basic Welding Processes	<u>1</u>	<u>3</u>	<u>2</u>
		3	6	5
<b>FOURTH SEMESTER (Fall)</b>				
ELC-131	Circuit Analysis I	3	3	4
MAC-111	Machining Technology I	2	12	6
MNT-165	Mechanical Industrial Systems	<u>1</u>	<u>3</u>	<u>2</u>
		6	18	12
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>37</u></b>

**Industrial Systems Technology (C50240I)****Industrial Maintenance Certificate Program**

		<b>Course Hours</b>		<b>Semester</b>
		<b>Per Week</b>		<b>Hours</b>
		<b>Class</b>	<b>Lab</b>	<b>Credit</b>
<b>FIRST SEMESTER (Fall)</b>				
ELC-131	Circuit Analysis I	3	3	4
MAC-111	Machining Technology I	2	12	6
MNT-165	Mechanical Industrial Systems	1	3	2
MNT-230	Pumps & Piping Systems	1	3	2
PKG-110	Pkg Machinery I	<u>1</u>	<u>4</u>	<u>3</u>
		8	25	17
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>17</u></b>

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## Industrial Systems Technology (C50240M)

### Machining Technology Certificate Program

	Course Hours		Semester Hours Credit
	Per Week		
	Class	Lab	
<b>FIRST SEMESTER (Spring)</b>			
BPR-115	Elc/Fluid Power Diagrams		2
ELC-117	Motors and Controls		4
MAC-112	Machining Technology II		6
MAC-121	Intro to CNC		<u>2</u>
	7	20	14
<b><u>Total Required Minimum Semester Hours Credit</u></b>			<b><u>14</u></b>

## Industrial Systems Technology (C50240P)

### Production Technologies Certificate Program

	Course Hours		Semester Hours Credit
	Per Week		
	Class	Lab	
<b>FIRST SEMESTER (Fall)</b>			
ISC-121	Envir Health & Safety		3
ISC-130	Intro to Quality Control		<u>3</u>
	6	0	6
<b>SECOND SEMESTER (Spring)</b>			
BPR-111	Print Reading		2
ISC-243	Prod & Oper Management I		3
MNT-110	Intro to Maint Procedures		<u>2</u>
	4	8	7
<b><u>Total Required Minimum Semester Hours Credit</u></b>			<b><u>13</u></b>

## Information Technology

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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

## IT – Computer Programming and Development Database Specialty (A25590PD)

### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success and Study Skills	0	2	1
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CSC-139	Visual BASIC Programming	2	3	3
CTI-120	Network & Sec Foundation	2	2	3
WEB-110	Internet/Web Fundamentals	<u>2</u>	<u>2</u>	<u>3</u>
		10	14	16
<b>SECOND SEMESTER (Spring)</b>				
CSC-153	C# Programming	2	3	3
CTI-110	Web, Pgm, & Db Foundation	2	2	3
DBA-110	Database Concepts	2	3	3
ENG-111	Writing and Inquiry	3	0	3
WEB-182	PHP Programming	<u>2</u>	<u>2</u>	<u>3</u>
		11	10	15
<b>THIRD SEMESTER (Summer)</b>				
ENG-112	Writing/Research in the Disc <i><u>or</u></i>			
ENG-114	Prof Research and Reporting	3	0	3
***	Technical Elective	***	***	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	9
<b>FOURTH SEMESTER (Fall)</b>				
CSC-253	Advanced C# Programming	2	3	3
CTS-115	Info Sys Business Concepts	3	0	3
CTS-285	Systems Analysis & Design	3	0	3
DBA-120	Database Programming I	2	2	3
MAT-121	Algebra/Trigonometry I <i><u>or</u></i>			
MAT-143	Quantitative Literacy <i><u>or</u></i>			
MAT-171	Precalculus Algebra	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	15-16
<b>FIFTH SEMESTER (Spring)</b>				
CSC-289	Programming Capstone Project	1	4	3
DBA-221	SQL Server DB Prog II	2	2	3
***	Humanities/Fine Arts Elective	3	0	3

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***	Social/Behavioral Science Elective	<u>3</u>	<u>0</u>	<u>3</u>
		9	6	12
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>67</u></b>

**Technical Electives:** Please select two from the following.

CET-111	Computer Upgrade/Repair I	2	3	3
CSC-134	C++ Programming	2	3	3
CSC-151	JAVA Programming	2	3	3
CSC-174	Server-Side JavaScript	2	3	3
CSC-239	Advanced Visual BASIC Prog	2	3	3
CSC-284	Emerging Comp Prog Tech	2	3	3
DME-110	Intro to Digital Media	2	2	3
NOS-120	Linux/UNIX Single User	2	2	3
NOS-230	Windows Administration I	2	2	3
SEL-193	Selected Topics	3	9	3

**These three WBL courses count as ONE technical elective.**

WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1
WBL-121	Work-Based Learning II	0	10	1

## IT – Computer Programming and Development Mobile App Specialty (A25590PM)

### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CSC-139	Visual BASIC Programming	2	3	3
CTI-120	Network & Sec Foundation	2	2	3
WEB-110	Internet/Web Fundamentals	<u>2</u>	<u>2</u>	<u>3</u>
		10	12	15
<b>SECOND SEMESTER (Spring)</b>				
ACA-115	Success & Study Skills	0	2	1
CSC-153	C# Programming	2	3	3
CTI-110	Web, Pgm, & Db Foundation	2	2	3
ENG-111	Writing and Inquiry	3	0	3
WEB-151	Mobile Application Dev I	<u>2</u>	<u>2</u>	<u>3</u>
		9	9	13
<b>THIRD SEMESTER (Summer)</b>				
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research and Reporting	3	0	3
***	Technical Elective	***	***	3
***	Technical Elective	***	***	<u>3</u>
		***	***	9
<b>FOURTH SEMESTER (Fall)</b>				
CSC-253	Advanced C# Programming	2	3	3

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CTS-115	Info Sys Business Concepts	3	0	3
CTS-285	Systems Analysis & Design	3	0	3
MAT-121	Algebra/Trigonometry I <u>or</u>			
MAT-143	Quantitative Literacy <u>or</u>			
MAT-171	Precalculus Algebra	***	***	3-4
WEB-187	Prog for Mobile Devices	<u>2</u>	<u>2</u>	<u>3</u>
		***	***	15-16

**FIFTH SEMESTER (Spring)**

CSC-289	Programming Capstone Project	1	4	3
WEB-251	Mobile Application Dev II	2	3	3
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Science Elective	3	0	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	15

**Total Required Minimum Semester Hours Credit** **67**

**Technical Electives:** Please select three courses from the following.

CET-111	Computer Upgrade/Repair I	2	3	3
CSC-134	C++ Programming	2	3	3
CSC-151	JAVA Programming	2	3	3
CSC-174	Server-Side JavaScript	2	3	3
CSC-239	Advanced Visual BASIC Prog	2	3	3
CSC-284	Emerging Comp Prog Tech	2	3	3
DBA-110	Database Concepts	2	3	3
DME-110	Intro to Digital Media	2	2	3
NOS-230	Windows Administration I	2	2	3
SEL-193	Selected Topics	3	9	3

**These three WBL courses count as ONE technical elective.**

WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1
WBL-121	Work-Based Learning II	0	10	1

## IT – Computer Programming and Development (C25590PC)

### C# Programming Certificate Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Spring)</b>				
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CSC-153	C# Programming	<u>2</u>	<u>3</u>	<u>3</u>
		6	8	9
<b>SECOND SEMESTER (Fall)</b>				
CSC-253	Advanced C# Programming	<u>2</u>	<u>3</u>	<u>3</u>
		2	3	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

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## IT – Computer Programming and Development (C25590PD)

### Database Programming Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-115	Intro to Prog & Logic	2	3	3
DBA-120	Database Programming I	<u>2</u>	<u>2</u>	<u>3</u>
		4	5	6
<b>SECOND SEMESTER (Spring)</b>				
DBA-221	SQL Server DB Prog II	2	2	3
WEB-182	PHP Programming	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## IT – Computer Programming and Development (C25590PM)

### Mobile Application Programming Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-115	Intro to Prog & Logic	2	3	3
WEB-187	Prog for Mobile Devices	<u>2</u>	<u>2</u>	<u>3</u>
		4	5	6
<b>SECOND SEMESTER (Spring)</b>				
WEB-151	Mobile Application Dev I	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b>THIRD SEMESTER (Spring)</b>				
WEB-251	Mobile Application Dev II	<u>2</u>	<u>3</u>	<u>3</u>
		2	3	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## IT – Computer Programming and Development (C25590PV)

### Visual Basic Programming Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CSC-139	Visual BASIC Programming	<u>2</u>	<u>3</u>	<u>3</u>

		6	8	9
<b>SECOND SEMESTER (Spring)</b>				
CSC-239	Advanced Visual BASIC Prog	<u>2</u>	<u>3</u>	<u>3</u>
		2	3	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## IT – Computer Programming and Development (C25590PW)

### Web Programming Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-115	Intro to Prog & Logic	2	3	3
WEB-110	Internet/Web Fundamentals	<u>2</u>	<u>2</u>	<u>3</u>
		4	5	6
<b>SECOND SEMESTER (Spring)</b>				
WEB-182	PHP Programming	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b>THIRD SEMESTER (Spring)</b>				
CSC-174	Server-Side JavaScript	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## IT - Networking (A25590N)

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
CTI-120	Network & Sec Foundation	2	2	3
ENG-111	Writing and Inquiry	3	0	3
NET-125	Introduction to Networks	1	4	3
NET-126	Routing Basics	1	4	3
SEC-110	Security Concepts	<u>2</u>	<u>2</u>	<u>3</u>
		9	14	16
<b>SECOND SEMESTER (Spring)</b>				
CIS-110	Introduction to Computers	2	2	3
CTI-110	Web, Pgm, & Db Foundations	2	2	3
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research and Reporting	3	0	3
NET-225	Routing & Switching I	1	4	3
NET-226	Routing and Switching II	<u>1</u>	<u>4</u>	<u>3</u>
		9	12	15

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**THIRD SEMESTER (Summer)**

MAT-121	Algebra/Trigonometry I <i>or</i>			
MAT-143	Quantitative Literacy <i>or</i>			
MAT-171	Precalculus Algebra	***	***	3-4
NOS-120	Linux/UNIX Single User	2	2	3
NOS-230	Windows Administration I	<u>2</u>	<u>2</u>	<u>3</u>
		***	***	9-10

**FOURTH SEMESTER (Fall)**

CET-111	Computer Upgrade/Repair I	2	3	3
CTS-115	Info Sys Business Concepts	3	0	3
NOS-130	Windows Single User	2	2	3
***	Humanities/Fine Arts Elective	3	0	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	15

**FIFTH SEMESTER (Spring)**

NET-289	Networking Project	1	4	3
***	Social/Behavioral Sciences Elective	3	0	3
***	Technical Elective	***	***	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	12

**Total Required Minimum Semester Hours Credit** **67**

**Technical Electives:** Choose 9 credit hours from the following:

CCT-110	Intro to Cyber Crime	3	0	3
CET-150	Computer Forensics I	2	3	3
CET-211	Computer Upgrade/Repair II	2	3	3
CET-250	Computer Forensics II	2	3	3
CTI-140	Virtualization Concepts	1	4	3
CTI-240	Virtualization Admin I	1	4	3
CTI-241	Virtualization Admin II	1	4	3
SEC-160	Security Administration I	2	2	3
SEC-210	Intrusion Detection	2	2	3
WEB-110	Internet/Web Fundamentals	2	2	3
<b>These three WBL courses count as ONE technical elective</b>				
WBL-111	Work-Based Learning I	0	10	1
WBL-115	Work-Based Learning Seminar I	1	0	1
WBL-121	Work-Based Learning II	0	10	1

**IT - Networking (D25590N)****Diploma Program**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CIS-110	Introduction to Computers	2	2	3
CTI-120	Network & Sec Foundation	2	2	3
NET-125	Introduction to Networks	1	4	3
NET-126	Routing Basics	1	4	3



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SEC-110	Security Concepts	<u>2</u>	<u>2</u>	<u>3</u>
		8	14	15

**SECOND SEMESTER (Spring)**

CTI-110	Web, Pgm, & Db Foundations	2	2	3
ENG-111	Writing and Inquiry	3	0	3
NET-225	Routing & Switching I	1	4	3
NET-226	Routing and Switching II	<u>1</u>	<u>4</u>	<u>3</u>
		7	10	12

**THIRD SEMESTER (Summer)**

MAT-121	Algebra/Trigonometry <i>or</i>			
MAT-143	Quantitative Literacy <i>or</i>			
MAT-171	Precalculus Algebra	***	***	3-4
NOS-120	Linux/UNIX Single User	2	2	3
NOS-230	Windows Administration I	<u>2</u>	<u>2</u>	<u>3</u>
		***	***	9-10

**Total Required Minimum Semester Hours Credit** **36**

**IT – Networking (D25590NS)****Security Diploma Program**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
CTI-120	Network & Sec Foundation	2	2	3
ENG-111	Writing and Inquiry	3	0	3
NET-125	Introduction to Networks	1	4	3
NET-126	Routing Basics	1	4	3
SEC-110	Security Concepts	<u>2</u>	<u>2</u>	<u>3</u>
		9	12	15
<b>SECOND SEMESTER (Spring)</b>				
CTI-110	Web, Pgm, & Db Foundations	2	2	3
NET-225	Routing & Switching I	1	4	3
NET-226	Routing and Switching II	1	4	3
SEC-160	Security Administration I	<u>2</u>	<u>2</u>	<u>3</u>
		6	12	12
<b>THIRD SEMESTER (Summer)</b>				
MAT-121	Algebra/Trigonometry I <i>or</i>			
MAT-143	Quantitative Literacy <i>or</i>			
MAT-171	Precalculus Algebra	***	***	3-4
NOS-120	Linux/UNIX Single User	2	2	3
NOS-230	Windows Administration I	<u>2</u>	<u>2</u>	<u>3</u>
		***	***	9-10
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>36</u></b>

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**IT – Networking (D25590NV)****Virtualization Diploma Program**

		<b>Course Hours Per Week</b>		<b>Semester Hours Credit</b>
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
CTI-120	Network & Sec Foundation	2	2	3
CTI-140	Virtualization Concepts	1	4	3
NET-125	Introduction to Networks	1	4	3
NET-126	Routing Basics	1	4	3
SEC-110	Security Concepts	<u>2</u>	<u>2</u>	<u>3</u>
		7	16	15
<b>SECOND SEMESTER (Spring)</b>				
CIS-110	Introduction to Computers	2	2	3
CTI-110	Web, Pgm, & Db Foundations	2	2	3
CTI-240	Virtualization Admin I	1	4	3
ENG-111	Writing and Inquiry	<u>3</u>	<u>0</u>	<u>3</u>
		8	8	12
<b>THIRD SEMESTER (Summer)</b>				
MAT-121	Algebra/Trigonometry I <i>or</i>			
MAT-143	Quantitative Literacy <i>or</i>			
MAT-171	Precalculus Algebra	***	***	3-4
NOS-120	Linux/UNIX Single User	2	2	3
NOS-230	Windows Administration I	<u>2</u>	<u>2</u>	<u>3</u>
		***	***	9-10
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>36</u></b>

**IT – Networking (C25590NC)****Cisco Certificate Program**

		<b>Course Hours Per Week</b>		<b>Semester Hours Credit</b>
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
NET-125	Introduction to Networks	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b>SECOND SEMESTER (Spring)</b>				
NET-126	Routing Basics	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b>THIRD SEMESTER (Fall)</b>				
NET-225	Routing & Switching I	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b>FOURTH SEMESTER (Spring)</b>				
NET-226	Routing & Switching II	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**IT – Networking (C25590NF)****Forensics Certificate Program**

		<b>Course Hours Per Week</b>		<b>Semester Hours Credit</b>
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
CET-150	Computer Forensics I	2	3	3
CTI-120	Network & Sec Foundation	2	2	3
NET-125	Introduction to Networks	<u>1</u>	<u>4</u>	<u>3</u>
		5	9	9
<b>SECOND SEMESTER (Spring)</b>				
CET-250	Computer Forensics II	<u>2</u>	<u>3</u>	<u>3</u>
		2	3	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**IT – Networking (C25590NS)****Security Certificate Program**

		<b>Course Hours Per Week</b>		<b>Semester Hours Credit</b>
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
NET-125	Introduction to Networks	1	4	3
SEC-110	Security Concepts	<u>2</u>	<u>2</u>	<u>3</u>
		3	6	6
<b>SECOND SEMESTER (Spring)</b>				
CCT-110	Intro to Cyber Crime	3	0	3
SEC-160	Security Administration I	<u>2</u>	<u>2</u>	<u>3</u>
		5	2	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**IT – Networking (C25590NV)****Virtualization Certificate Program**

		<b>Course Hours Per Week</b>		<b>Semester Hours Credit</b>
		<b>Class</b>	<b>Lab</b>	
<b>FIRST SEMESTER (Fall)</b>				
CTI-120	Network & Sec Foundation	2	2	3
CTI-140	Virtualization Concepts	1	4	3
NET-125	Introduction to Networks	<u>1</u>	<u>4</u>	<u>3</u>
		4	10	9
<b>SECOND SEMESTER (Spring)</b>				
CTI-240	Virtualization Admin I	<u>1</u>	<u>4</u>	<u>3</u>
		1	4	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

## Landscape Gardening

These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses.

Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, government agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination.

**Landscape Gardening:** A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Potential course work includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Landscape Gardening (A15260)

#### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ENG-111	Writing and Inquiry	3	0	3
LSG-111	Basic Landscape Technique	2	0	2
LSG-121	Fall Gardening Lab	0	6	2
MAT-110	Math Measurement & Literacy (or higher)	***	***	3-4
***	Social/Behavioral Science Elective	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	14-15
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			

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ENG-114	Prof Research & Reporting	3	0	3
HOR-134	Greenhouse Operations	2	2	3
HOR-142	Fruits & Vegetable Prod	1	2	2
HOR-160	Plant Materials I	2	2	3
LSG-122	Spring Gardening Lab	0	6	2
TRF-110	Intro Turfgrass Cult & ID	3	2	4
WBL-111	Work-Based Learning I	<u>0</u>	<u>10</u>	<u>1</u>
		11	24	18
<b>THIRD SEMESTER (Summer)</b>				
HOR-114	Landscape Construction	2	2	3
HOR-161	Plant Materials II	2	2	3
HOR-164	Hort Pest Management	2	2	3
HOR-257	Arboriculture Practices	1	3	2
LSG-123	Summer Gardening Lab	0	6	2
WBL-121	Work-Based Learning II	<u>0</u>	<u>10</u>	<u>1</u>
		7	25	14
<b>FOURTH SEMESTER (Fall)</b>				
HOR-112	Landscape Design I	2	3	3
HOR-235	Greenhouse Production	2	2	3
HOR-268	Adv Propagation	3	3	4
LSG-231	Landscape Supervision	2	6	4
WBL-131	Work-Based Learning III	0	10	1
***	Optional Elective**	***	***	<u>0-2</u>
		***	***	15-17
<b>FIFTH SEMESTER (Spring)</b>				
LSG-244	Advanced Issues/LSG	2	0	2
SPA-111	Elementary Spanish I (or higher)	3	0	3
***	Humanities/Fine Arts Elective	3	0	3
***	Technical Elective	***	***	<u>4</u>
		***	***	12
<b>SIXTH SEMESTER (Summer)</b>				
WBL-212	Work-Based Learning IV	<u>0</u>	<u>20</u>	<u>2</u>
		0	20	2
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>75</u></b>

**Technical Elective:** Students must take a minimum of 4 credit hours either fall or spring semester.

BUS-230	Small Business Management	3	0	3
HOR-213	Landscape Design II	2	2	3
HOR-225	Nursery Production	2	2	3
HOR-255	Interiorscapes	1	2	2
HOR-265	Advanced Plant Materials**	1	2	2

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 APPLIED SCIENCE PROGRAMS
 

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## Landscape Gardening (C15260)

### Certificate Program

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
LSG-111	Basic Landscape Technique	2	0	2
LSG-121	Fall Gardening Lab	0	6	2
MAT-110	Math Measurement & Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-4</u>
		***	***	8-9
<b>SECOND SEMESTER (Spring)</b>				
HOR-134	Greenhouse Operations	2	2	3
HOR-160	Plant Material I	2	2	3
LSG-122	Spring Gardening Lab	<u>0</u>	<u>6</u>	<u>2</u>
		4	10	8
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

## Medical Laboratory Technology

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 examination 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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

*The MLT program is accredited by the:*

*National Accrediting Agency for Clinical Laboratory Sciences*

*5600 N. River Rd. Suite 720*

*Rosemont, IL 60018-5119*

*Phone: 847.939.3597*

*Phone: 773.714.8880*

*Fax: 773.714.8886*

*Email: [ifo@naacls.org](mailto:ifo@naacls.org)*

*Website: <http://www.ncccls.org>*

## Medical Laboratory Technology (A45420)

### Associate in Applied Science Degree Program

		Course Hours Per			Semester Hours Credit
		Week			
Class		Lab	Clinical		
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
CHM-130	Gen. Org. & Biochemistry	3	0	0	3
CHM-130A	Gen. Org. & Biochem Lab	0	2	0	1
MAT-143	Quantitative Literacy (or higher)	***	***	0	3-4
MED-120	Survey of Med Terminology	2	0	0	2
MLT-110	Intro to MLT	2	3	0	3
MLT-126	Immunology and Serology	1	2	0	2
MLT-140	Intro to Microbiology	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		***	***	0	18-19
<b>SECOND SEMESTER (Spring)</b>					
BIO-163	Basic Anat & Physiology	4	2	0	5
ENG-111	Writing and Inquiry	3	0	0	3
MLT-120	Hematology/Hemostasis I	3	3	0	4
MLT-130	Clinical Chemistry I	3	3	0	4
MLT-240	Special Clin Microbiology	<u>2</u>	<u>3</u>	<u>0</u>	<u>3</u>
		15	11	0	19
<b>THIRD SEMESTER (Summer)</b>					
MLT-111	Urinalysis & Body Fluids	1	3	0	2
MLT-127	Transfusion Medicine	2	3	0	3
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		6	6	0	8
<b>FOURTH SEMESTER (Fall)</b>					
MLT-252	MLT Practicum I	0	0	6	2
MLT-255	MLT Practicum I	0	0	15	5
MLT-265	MLT Practicum II	0	0	15	5
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		3	0	36	15
<b>FIFTH SEMESTER (Spring)</b>					
ENG-112	Writing/Research in the Disc <u>or</u>				
ENG-114	Prof Research & Reporting	3	0	0	3
MLT-215	Professional Issues	1	0	0	1
MLT-275	MLT Practicum III	0	0	15	5
MLT-288	MLT Practicum IV	<u>0</u>	<u>0</u>	<u>15</u>	<u>5</u>
		4	0	30	14
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>74</u></b>

## Medical Office Administration

The Medical Office Administration curriculum prepares individuals for employment as medical administrative personnel in the areas of medical

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 APPLIED SCIENCE PROGRAMS
 

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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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Medical Office Administration - General (A25310G)

#### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <i>or</i>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
OST-141	Med Office Terms I <i>or</i>			
MED-121	Medical Terminology I	3	0	3
***	Natural Science Elective <i>or</i>			
MAT-143	Quantitative Literacy (or higher)	***	***	<u>3-5</u>
		***	***	16-18
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3
OST-142	Med Office Terms II <i>or</i>			
MED-122	Medical Terminology II	3	0	3
OST-148	Med Ins & Billing	3	0	3
OST-164	Office Editing	<u>3</u>	<u>0</u>	<u>3</u>
		14	2	15
<b>THIRD SEMESTER (Summer)</b>				
OST-136	Word Processing	2	2	3
OST-137	Office Applications I <i>or</i>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6



**FOURTH SEMESTER (Fall)**

OST-149	Medical Legal Issues	3	0	3
OST-236	Adv Word Processing	2	2	3
OST-243	Med Office Simulation	2	2	3
OST-247	Procedure Coding	2	2	3
OST-248	Diagnostic Coding	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>
		12	10	17

**FIFTH SEMESTER (Spring)**

OST-286	Professional Development <u>or</u>			
BUS-151	People Skills	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Sciences Elective	3	0	3
***	Technical Elective	***	***	<u>2-3</u>
		***	***	14-15

**Total Required Minimum Semester Hours Credit****68****Technical Elective:**

ACC-140	Payroll Accounting	1	3	2
ACC-149	Intro to Acc Spreadsheets	1	3	2
ACC-150	Accounting Software Appl	1	3	2
BUS-121	Business Math	2	2	3
BUS-153	Human Resource Management	3	0	3
BUS-260	Business Communication	3	0	3
OST-184	Records Management	2	2	3

## Medical Office Administration – Medical Coding and Billing (A25310M)

### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <u>or</u>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
OST-141	Med Office Terms I <u>or</u>			
MED-121	Medical Terminology I	3	0	3
***	Natural Science Elective <u>or</u>			
MAT-143	Quantitative Literacy (or higher)	***	***	<u>3-5</u>
		***	***	16-18
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3

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OST-142	Med Office Terms II <u>or</u>			
MED-122	Medical Terminology II	3	0	3
OST-148	Med Ins & Billing	3	0	3
OST-164	Office Editing	<u>3</u>	<u>0</u>	<u>3</u>
		14	2	15
<b>THIRD SEMESTER (Summer)</b>				
OST-136	Word Processing	2	2	3
OST-137	Office Applications I <u>or</u>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>FOURTH SEMESTER (Fall)</b>				
OST-149	Medical Legal Issues	3	0	3
OST-236	Adv Word Processing	2	2	3
OST-243	Med Office Simulation	2	2	3
OST-247	Procedure Coding	2	2	3
OST-248	Diagnostic Coding	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>
		12	10	17
<b>FIFTH SEMESTER (Spring)</b>				
OST-249	Med Coding Certification Prep	2	3	3
OST-250	Long-Term Care Coding	2	2	3
OST-286	Professional Development <u>or</u>			
BUS-151	People Skills	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		15	7	18
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>72</u></b>

## Medical Office Administration – Patient Services (A25310P)

### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <u>or</u>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
OST-141	Med Office Terms I <u>or</u>			
MED-121	Medical Terminology I	3	0	3
***	Natural Science Elective <u>or</u>			
MAT-143	Quantitative Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-5</u>
		***	***	16-18
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3

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OST-142	Med Office Terms II <i>or</i>			
MED-122	Medical Terminology II	3	0	3
OST-148	Med Ins & Billing	3	0	3
OST-164	Office Editing	3	0	3
OST-184	Records Management	<u>2</u>	<u>2</u>	<u>3</u>
		16	4	18
<b>THIRD SEMESTER (Summer)</b>				
OST-136	Word Processing	2	2	3
OST-137	Office Applications I <i>or</i>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>FOURTH SEMESTER (Fall)</b>				
BUS-121	Business Math	2	2	3
MKT-223	Customer Service	3	0	3
OST-149	Medical Legal Issues	3	0	3
OST-236	Adv Word Processing	2	2	3
OST-243	Med Office Simulation	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>
		13	8	17
<b>FIFTH SEMESTER (Spring)</b>				
BUS-260	Business Communication	3	0	3
OST-286	Professional Development <i>or</i>			
BUS-151	People Skills	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Humanities/Fine Arts Elective	3	0	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		14	2	15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>72</u></b>

**Medical Office Administration (C25310C)****Medical Coding and Billing Certificate**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
OST-141	Med Office Terms I <i>or</i>			
MED-121	Medical Terminology I	<u>3</u>	<u>0</u>	<u>3</u>
		3	0	3
<b>SECOND SEMESTER (Spring)</b>				
OST-142	Med Office Terms II <i>or</i>			
MED-122	Medical Terminology II	3	0	3
OST-148	Med Ins & Billing	<u>3</u>	<u>0</u>	<u>3</u>
		6	0	6
<b>THIRD SEMESTER (Summer)</b>				
OST-247	Procedure Coding	2	2	3
OST-248	Diagnostic Coding	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

## Nurse Aide

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 (C45840)

#### Certificate Program

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
<b>FIRST SEMESTER (Fall)</b>					
NAS-101	Nurse Aide I	<u>3</u>	<u>4</u>	<u>3</u>	<u>6</u>
		3	4	3	6
<b>SECOND SEMESTER (Spring)</b>					
NAS-102	Nurse Aide II	<u>3</u>	<u>2</u>	<u>6</u>	<u>6</u>
		3	2	6	6
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>12</u></b>

## Nursing

The Associate Degree Nursing (ADN) curriculum provides knowledge, skills, 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.

*Because the use of computers is integral to this curriculum, some portions of courses are web-enhanced to provide students resource material related to their studies.*

*The Associate Degree Nursing program at Sandhills is approved by the North Carolina Board of Nursing.*

## Nursing (A45110)

### Associate in Applied Science Degree Program

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
<b>FIRST SEMESTER (Fall)</b>					
BIO-165	Anatomy and Physiology I	3	3	0	4
ENG-111	Writing and Inquiry	3	0	0	3
NUR-111	Intro to Health Concepts	4	6	6	8
PSY-150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		13	9	6	18
<b>SECOND SEMESTER (Spring)</b>					
ACA-122	College Transfer Success	0	2	0	1
BIO-166	Anatomy and Physiology II	3	3	0	4
ENG-112	Writing/Research in Disc <i>or</i>				
ENG-114	Prof Research & Reporting	3	0	0	3
NUR-112	Health-Illness Concepts	3	0	6	5
NUR-211	Health Care Concepts	<u>3</u>	<u>0</u>	<u>6</u>	<u>5</u>
		12	5	12	18
<b>THIRD SEMESTER (Summer)</b>					
NUR-114	Holistic Health Concepts	3	0	6	5
PSY-241	Developmental Psych	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		6	0	6	8
<b>FOURTH SEMESTER (Fall)</b>					
BIO-275	Microbiology	3	3	0	4
NUR-113	Family Health Concepts	3	0	6	5
NUR-212	Health System Concepts	3	0	6	5
SOC-210	Introduction to Sociology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		12	3	12	17
<b>FIFTH SEMESTER (Spring)</b>					
NUR-213	Complex Health Concepts	4	3	15	10
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		7	3	15	13
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>74</u></b>

*Humanities/Fine Arts Elective list:*

ART-111, ART-114, ART-115, HUM-115, MUS-110, MUS-112, PHI-215, PHI-240

## Associate in General Education Nursing

Associate in General Education Nursing (AGE-N) appears in the *Catalog* under the title *General Degree Program*.

### Office Administration

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.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Office Administration - General (A25370G)

#### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <u>or</u>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
***	Humanities/Fine Arts Elective	3	0	3
***	Natural Science Elective <u>or</u>			
MAT-143	Quantitative Literacy (or higher)	***	***	<u>3-5</u>
		***	***	16-18
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3
OST-164	Office Editing	3	0	3
OST-184	Records Management	2	2	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		13	4	15

**THIRD SEMESTER (Summer)**

OST-136	Word Processing	2	2	3
OST-137	Office Application I <i>or</i>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6

**FOURTH SEMESTER (Fall)**

ACC-149	Intro to Acc Spreadsheets	1	3	2
ACC-150	Accounting Software Appl	1	3	2
BUS-125	Personal Finance	3	0	3
BUS-230	Small Business Management	3	0	3
OST-236	Adv Word Processing	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>
		11	10	15

**FIFTH SEMESTER (Spring)**

OST-286	Professional Development <i>or</i>			
BUS-151	People Skills	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Technical Elective	***	***	2-3
***	Technical Elective	***	***	3
***	Technical Elective	***	***	<u>3-4</u>
		***	***	14-16

**Total Required Minimum Semester Hours Credit****66****Technical Electives:**

ACC-121	Prin of Managerial Accounting	3	2	4
ACC-140	Payroll Accounting	1	3	2
BAF-110	Principles of Banking	3	0	3
BUS-115	Business Law I	3	0	3
BUS-121	Business Math	2	2	3
BUS-153	Human Resource Management	3	0	3
BUS-225	Business Finance	2	2	3
BUS-255	Org Behavior in Business	3	0	3
BUS-260	Business Communication	3	0	3
OST-233	Office Publications Design	2	2	3

**Office Administration – Customer Service (A25370C)****Associate in Applied Science Degree Program**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <i>or</i>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
***	Humanities/Fine Arts Elective	3	0	3
***	Natural Science Elective <i>or</i>			

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 APPLIED SCIENCE PROGRAMS
 

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MAT-143	Quantitative Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-5</u>
		***	***	16-18
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3
OST-164	Office Editing	3	0	3
OST-184	Records Management	2	2	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		13	4	15
<b>THIRD SEMESTER (Summer)</b>				
OST-136	Word Processing	2	2	3
OST-137	Office Applications I <u>or</u>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>FOURTH SEMESTER (Fall)</b>				
ACC-149	Intro to Acc Spreadsheets	1	3	2
BUS-125	Personal Finance	3	0	3
BUS-260	Business Communication	3	0	3
MKT-223	Customer Service	3	0	3
OST-236	Adv Word Processing	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>
		13	7	16
<b>FIFTH SEMESTER (Spring)</b>				
ACC-150	Accounting Software Appl	1	3	2
OST-286	Professional Development	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Technical Elective	***	***	2-3
***	Technical Elective	***	***	<u>3-4</u>
		***	***	13-15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>66</u></b>

**Technical Electives:**

ACC-121	Prin of Managerial Accounting	3	2	4
ACC-140	Payroll Accounting	1	3	2
BAF-110	Principles of Banking	3	0	3
BUS-115	Business Law I	3	0	3
BUS-121	Business Math	2	2	3
BUS-153	Human Resource Management	3	0	3
BUS-230	Small Business Management	3	0	3
BUS-255	Org Behavior in Business	3	0	3
OST-233	Office Publications Design	2	2	3

## Office Administration – Legal Office (A25370L)

### Associate in Applied Science Degree Program

Course Hours		Semester Hours Credit
Per Week		
Class	Lab	



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 SANDHILLS COMMUNITY COLLEGE
 

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**FIRST SEMESTER (Fall)**

ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <i>or</i>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
***	Humanities/Fine Arts Elective	3	0	3
***	Natural Science Elective <i>or</i>			
MAT-143	Quantitative Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-5</u>
		***	***	16-18

**SECOND SEMESTER (Spring)**

ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3
OST-164	Office Editing	3	0	3
OST-184	Records Management	2	2	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		13	4	15

**THIRD SEMESTER (Summer)**

OST-136	Word Processing	2	2	3
OST-137	Office Applications I <i>or</i>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6

**FOURTH SEMESTER (Fall)**

ACC-149	Intro to Acc Spreadsheets	1	3	2
BUS-115	Business Law I	3	0	3
OST-155	Legal Terminology	3	0	3
OST-156	Legal Office Procedures	2	2	3
OST-236	Adv Word Processing	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>
		12	9	16

**FIFTH SEMESTER (Spring)**

ACC-150	Accounting Software Appl	1	3	2
BUS-125	Personal Finance	3	0	3
OST-286	Professional Development <i>or</i>			
BUS-151	People Skills	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>2-4</u>
		***	***	13-15

**Total Required Minimum Semester Hours Credit****66****Technical Electives:**

ACC-121	Prin of Managerial Accounting	3	2	4
ACC-140	Payroll Accounting	1	3	2
BAF-110	Principles of Banking	3	0	3
BUS-121	Business Math	2	2	3
BUS-153	Human Resource Management	3	0	3
BUS-230	Small Business Management	3	0	3
BUS-255	Org Behavior in Business	3	0	3
BUS-260	Business Communication	3	0	3

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 APPLIED SCIENCE PROGRAMS
 

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MKT-223	Customer Service	3	0	3
OST-233	Office Publications Design	2	2	3

### Office Administration – Office Finance (A25370F)

#### Associate in Applied Science Degree Program

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <i>or</i>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
***	Humanities/Fine Arts Elective	3	0	3
***	Natural Science Elective <i>or</i>			
MAT-143	Quantitative Literacy (or higher)	***	***	<u>3-5</u>
		***	***	16-18
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <i>or</i>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3
OST-164	Office Editing	3	0	3
OST-184	Records Management	2	2	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		13	4	15
<b>THIRD SEMESTER (Summer)</b>				
OST-136	Word Processing	2	2	3
OST-137	Office Applications I <i>or</i>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>FOURTH SEMESTER (Fall)</b>				
ACC-140	Payroll Accounting	1	3	2
ACC-149	Intro to Acc Spreadsheets	1	3	2
BUS-121	Business Math	2	2	3
BUS-125	Personal Finance	3	0	3
OST-236	Adv Word Processing	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>
		10	12	15
<b>FIFTH SEMESTER (Spring)</b>				
ACC-150	Accounting Software Appl	1	3	2
OST-286	Professional Development <i>or</i>			
BUS-151	People Skills	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Technical Elective	***	***	3
***	Technical Elective	***	***	<u>3-4</u>
		***	***	14-15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>66</u></b>

**Technical Electives:**

ACC-121	Prin of Managerial Accounting	3	2	4
BAF-110	Principles of Banking	3	0	3
BUS-115	Business Law I	3	0	3
BUS-153	Human Resource Management	3	0	3
BUS-225	Business Finance	2	2	3
BUS-255	Org Behavior in Business	3	0	3
BUS-260	Business Communication	3	0	3
MKT-223	Customer Service	3	0	3
OST-233	Office Publications Design	2	2	3

**Office Administration – Office Software (A25370S)****Associate in Applied Science Degree Program**

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ACC-115	College Accounting <u>or</u>			
ACC-120	Prin of Financial Accounting	3	2	4
ENG-111	Writing and Inquiry	3	0	3
OST-131	Keyboarding	1	2	2
***	Humanities/Fine Arts Elective	3	0	3
***	Natural Science Elective <u>or</u>			
MAT-143	Quantitative Literacy (or higher)	<u>***</u>	<u>***</u>	<u>3-5</u>
		***	***	16-18
<b>SECOND SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <u>or</u>			
ENG-114	Prof Research & Reporting	3	0	3
OST-134	Text Entry & Formatting	2	2	3
OST-164	Office Editing	3	0	3
OST-184	Records Management	2	2	3
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>3</u>
		13	4	15
<b>THIRD SEMESTER (Summer)</b>				
OST-136	Word Processing	2	2	3
OST-137	Office Applications I <u>or</u>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>FOURTH SEMESTER (Fall)</b>				
ACC-149	Intro to Acc Spreadsheets	1	3	2
BUS-125	Personal Finance	3	0	3
OST-138	Office Applications II	2	2	3
OST-233	Office Publications Design	2	2	3
OST-236	Adv Word Processing	2	2	3
OST-284	Emerging Technologies	<u>1</u>	<u>2</u>	<u>2</u>

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 APPLIED SCIENCE PROGRAMS
 

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		11	11	16
<b>FIFTH SEMESTER (Spring)</b>				
ACC-150	Accounting Software Appl	1	3	2
OST-286	Professional Development <b><i>or</i></b>			
BUS-151	People Skills	3	0	3
OST-289	Office Admin Capstone	2	2	3
***	Technical Elective	***	***	2-3
***	Technical Elective	***	***	<u>3-4</u>
		***	***	13-15
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>66</u></b>

**Technical Electives:**

ACC-121	Prin of Managerial Accounting	3	2	4
ACC-140	Payroll Accounting	1	3	2
BAF-110	Principles of Banking	3	0	3
BUS-115	Business Law I	3	0	3
BUS-153	Human Resource Management	3	0	3
BUS-225	Business Finance	2	2	3
BUS-230	Small Business Management	3	0	3
BUS-255	Org Behavior in Business	3	0	3
BUS-260	Business Communication	3	0	3
MKT-223	Customer Service	3	0	3

**Office Administration (C25370)****Certificate Program**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
<b>FIRST SEMESTER (Fall)</b>				
ACC-120	Prin of Financial Accounting	3	2	4
OST-131	Keyboarding	<u>1</u>	<u>2</u>	<u>2</u>
		4	4	6
<b>SECOND SEMESTER (Spring)</b>				
ACC-149	Intro to Acc Spreadsheets	<u>1</u>	<u>3</u>	<u>2</u>
		1	3	2
<b>THIRD SEMESTER (Summer)</b>				
OST-136	Word Processing	2	2	3
OST-137	Office Application I <b><i>or</i></b>			
CIS-110	Introduction to Computers	<u>2</u>	<u>2</u>	<u>3</u>
		4	4	6
<b>FOURTH SEMESTER (Fall)</b>				
OST-236	Adv Word Processing	<u>2</u>	<u>2</u>	<u>3</u>
		2	2	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>17</u></b>

## Ophthalmic Medical Personnel

The Ophthalmic Medical Personnel Program prepares individuals to perform ophthalmic procedures under the supervision of a licensed physician specializing in Ophthalmology. Course work includes lecture, laboratory, and clinical training in ocular measurements; ocular testing; lensometry; administering topical and oral medications; eye care; and caring for instruments.

Graduates are employed in medical institutions, clinics, or physician practices.

Graduates may qualify as candidates to take the Joint Commission on Allied Health Personnel, Ophthalmology National Certification Exam. Diploma graduates may be eligible for Certified Ophthalmic Medical Assistant certification.

### Ophthalmic Medical Personnel (D45210)

#### Diploma Program

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	Credit
<b>FIRST SEMESTER (Summer)</b>					
COM-110	Introduction to Communication <i>or</i>				
COM-120	Intro to Interpersonal Com <i>or</i>				
COM-231	Public Speaking	3	0	0	3
ENG-111	Writing and Inquiry	3	0	0	3
MED-120	Survey of Med Terminology	2	0	0	2
OPH-150	Intro to Ophth Med Assist	2	0	0	2
OPH-151	Ocular Anat. & Physiology	2	0	0	2
PSY-150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		15	0	0	15
<b>SECOND SEMESTER (Fall)</b>					
OPH-113	Intro to Diseases of Eye	2	0	0	2
OPH-115	Ophthalmic Clin Proc I	1	2	0	2
OPH-116	Ophtha Med Assist Pract I	0	0	18	6
OPH-119	Ophtha Optics & Basic Refract	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		5	2	18	12
<b>THIRD SEMESTER (Spring)</b>					
OPH-114	Basic Ophthalmic Pharma.	2	0	0	2
OPH-117	Ophthalmic Clin Proc II	1	2	0	2
OPH-118	Ophthalmic Patient Care	2	0	0	2
OPH-120	Op Med Asst Practicum II	<u>0</u>	<u>0</u>	<u>18</u>	<u>6</u>
		5	2	18	12
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>39</u></b>

## Professional Pilot (see Aviation Management & Career Pilot)

### Radiography

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.

*Because the use of computers is integral to this curriculum, some portions of courses are web-enhanced to provide students resource material related to their studies.*

*The Radiography program is accredited by the  
Joint Review Committee on Education in Radiologic Technology  
20 N. Wacker Drive, Suite 2850  
Chicago, IL 60606-3182  
Phone: 312-704-5300 Fax: 312-704-5304  
E-Mail: mail@jrcert.org Website: www.jrcert.org*

### Radiography (A45700)

#### Associate in Applied Science Degree Program

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
BIO-165	Anatomy & Physiology I	3	3	0	4
MAT-143	Quantitative Literacy	2	2	0	3
RAD-110	Rad Intro & Patient Care	2	3	0	3
RAD-111	RAD Procedures I	3	3	0	4
RAD-151	RAD Clinical Ed I	<u>0</u>	<u>0</u>	<u>6</u>	<u>2</u>
		10	13	6	17

**SECOND SEMESTER (Spring)**

BIO-166	Anatomy & Physiology II	3	3	0	4
RAD-112	RAD Procedures II	3	3	0	4
RAD-121	Image Production I	2	3	0	3
RAD-161	RAD Clinical Ed II	<u>0</u>	<u>0</u>	<u>15</u>	<u>5</u>
		8	9	15	16

**THIRD SEMESTER (Summer)**

ENG-111	Writing and Inquiry	3	0	0	3
RAD-122	Image Production II	1	3	0	2
RAD-141	Radiation Safety	2	0	0	2
RAD-171	RAD Clinical Ed III	<u>0</u>	<u>0</u>	<u>9</u>	<u>3</u>
		6	3	9	10

**FOURTH SEMESTER (Fall)**

ENG-112	Writing/Research in the Disc	3	0	0	3
RAD-211	RAD Procedures III	2	3	0	3
RAD-231	Image Production III	1	3	0	2
RAD-251	RAD Clinical Ed IV	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		6	6	21	15

**FIFTH SEMESTER (Spring)**

RAD-261	RAD Clinical Ed V	0	0	21	7
RAD-271	Radiography Capstone	2	3	0	3
***	Humanities/Fine Arts Elective*	3	0	0	3
***	Social/Behavioral Sciences Elective*	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		8	3	21	16

**Total Required Minimum Semester Hours Credit** **74**

**Please select Humanities/Fine Arts Elective from one of the following:**

ART-111	Art Appreciation	3	0	3
ENG-231	American Literature I	3	0	3
HUM-122	Southern Culture	3	0	3
HUM-150	American Womens Studies	3	0	3
MUS-110	Music Appreciation	3	0	3
PHI-240	Introduction to Ethics	3	0	3
REL-110	World Religions	3	0	3
SPA-211	Intermediate Spanish I	3	0	3

**Please select Social/Behavioral Sciences Elective from one of the following:**

GEO-111	World Regional Geography	3	0	3
HIS-111	World Civilization I	3	0	3
HIS-112	World Civilization II	3	0	3
POL-120	American Government	3	0	3
PSY-118	Interpersonal Psychology	3	0	3
PSY-150	General Psychology	3	0	3
SOC-210	Introduction to Sociology	3	0	3
SOC-213	Sociology of the Family	3	0	3

## Respiratory Therapy

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.

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 APPLIED SCIENCE PROGRAMS
 

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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 may be eligible to take entry-level examinations from the National Board of Respiratory Care. Therapy graduates may also take the Advanced Practitioner examination. Graduates may be employed in hospitals, clinics, nursing homes, education, industry, and home care.

*Because the use of computers is integral to this curriculum, some courses are Web-enhanced to provide students materials related to their studies.*

*The Respiratory Therapy program at Sandhills is accredited by the Commission on Accreditation for Respiratory Care  
1248 Harwood Road  
Bedford, Texas 76021-4244  
817-283-2835*

## Respiratory Therapy (A45720)

### Associate in Applied Science Degree Program

		Course Hours Per			Semester Hours Credit
		Week			
		Class	Lab	Clinical	
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
BIO-165	Anatomy & Physiology I	3	3	0	4
CHM-151	General Chemistry I	3	3	0	4
ENG-111	Writing and Inquiry	3	0	0	3
RCP-110	Intro to Respiratory Care	3	3	0	4
RCP-114	C-P Anatomy & Physiology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		15	11	0	19
<b>SECOND SEMESTER (Spring)</b>					
BIO-166	Anatomy & Physiology II	3	3	0	4
CHM-152	General Chemistry II	3	3	0	4
ENG-112	Writing/Research in the Disc	3	0	0	3
RCP-111	Therapeutics/Diagnostics	4	3	0	5
RCP-113	RCP Pharmacology	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		15	9	0	18
<b>THIRD SEMESTER (Summer)</b>					
RCP-115	C-P Pathophysiology	2	0	0	2
RCP-210	Critical Care Concepts	3	3	0	4
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		8	3	0	9
<b>FOURTH SEMESTER (Fall)</b>					
RCP-139	RCP Clinical Practice I	0	0	27	9



RCP-211	Adv Monitoring/Procedures	3	3	0	4
RCP-213	Neonatal/Ped's Concepts	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		5	3	27	15
<b>FIFTH SEMESTER (Spring)</b>					
RCP-149	RCP Clinical Practice II	0	0	27	9
RCP-215	Career Preparation	0	3	0	1
***	Social/Behavioral Sciences Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		3	3	27	13
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>74</u></b>

## Simulation and Game Development

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers, and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

## Simulation and Game Development (A25450)

### Associate in Applied Science Degree Program

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
ACA-115	Success & Study Skills	0	2	1
ART-131	Drawing I <i>or</i>			
ART-171	Computer Art I	0	6	3
ENG-111	Writing and Inquiry	3	0	3
SGD-111	Introduction to SGD	2	3	3
SGD-112	SGD Design	<u>2</u>	<u>3</u>	<u>3</u>
		7	14	13
<b>SECOND SEMESTER (Spring)</b>				
CSC-134	C++ Programming <i>or</i>			
CSC-153	C# Programming <i>or</i>			
SGD-113	SGD Programming	2	3	3
MAT-121	Algebra/Trigonometry I <i>or</i>			
MAT-171	Precalculus Algebra	***	***	3-4
SGD-114	3D Modeling	2	3	3

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 APPLIED SCIENCE PROGRAMS
 

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SGD-212	SGD Design II	2	3	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	15-16
<b>THIRD SEMESTER (Summer)</b>				
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	3
<b>FOURTH SEMESTER (Fall)</b>				
SGD-174	SGD Level Design	2	3	3
SGD-214	3D Modeling II	2	3	3
***	Physical Methods Elective	***	***	4
***	Programming Elective	2	3	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	16
<b>FIFTH SEMESTER (Spring)</b>				
ENG-112	Writing/Research in the Disc <i><b>or</b></i>			
ENG-114	Prof Research & Reporting	3	0	3
PSY-150	General Psychology	3	0	3
SGD-162	SG 3D Animation	2	3	3
SGD-274	SG Level Design II	2	3	3
***	Technical Elective	<u>***</u>	<u>***</u>	<u>3</u>
		***	***	15
<b>SIXTH SEMESTER (Summer)</b>				
SGD-289	SGD Project	<u>2</u>	<u>3</u>	<u>3</u>
		2	3	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>65</u></b>
<b>Programming Electives: (must choose 1 course)</b>				
CIS-115	Intro to Prog & Logic	2	3	3
CSC-134	C++ Programming	2	3	3
CSC-153	C# Programming	2	3	3
CSC-253	Advanced C# Programming	2	3	3
SGD-113	SGD Programming	2	3	3
SGD-213	SG Programming II	2	3	3
SGD-285	SG Software Engineering	2	3	3
<b>Physical Methods Electives:</b>				

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PHY-110	Conceptual Physics <i>and</i>	3	0	3
PHY-110A	Conceptual Physics Lab	0	1	1
PHY-131	Physics-Mechanics	3	2	4
PHY-151	College Physics I	3	2	4
<b>Technical Electives:</b> (must choose 4 courses)				
DBA-110	Database Concepts	2	3	3
DBA-120	Database Programming I	2	2	3
DFT-170	Engineering Graphics	2	2	3
DME-110	Intro to Digital Media	2	2	3
DME-120	Intro to Multimedia Appl	2	2	3
DME-130	Digital Animation I	2	2	3
NET-125	Introduction to Networks	1	4	3
SGD-159	SGD Production Management	3	0	3
SGD-163	SG Documentation	3	0	3
SGD-167	SG Ethics	3	0	3

### Simulation & Gaming (C25450)

#### Certificate Program

		Course Hours Per Week		Semester Hours
		Class	Lab	Credit
<b>FIRST SEMESTER (Fall)</b>				
SGD-111	Introduction to SGD	2	3	3
SGD-112	SGD Design	<u>2</u>	<u>3</u>	<u>3</u>
		4	6	6
<b>SECOND SEMESTER (Spring)</b>				
SGD-113	SGD Programming	2	3	3
SGD-114	3D Modeling	2	3	3
SGD-212	SGD Design II	<u>2</u>	<u>3</u>	<u>3</u>
		6	9	9
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

### Surgical Technology

The Surgical Technology curriculum prepares individuals to assist in the care of the surgical patient in the operating room and to function as a member of the surgical team.

Students will apply theoretical knowledge to the care of patients undergoing surgery and develop skills necessary to prepare supplies, equipment, and instruments; maintain aseptic conditions; prepare patients for surgery; and assist surgeons during operations.

Employment opportunities include labor/delivery/emergency departments, inpatient/outpatient surgery centers, dialysis units/facilities, physicians' offices, and central supply processing units.

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 APPLIED SCIENCE PROGRAMS
 

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*Students of Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredited programs are required to take the national certification exam administered by the National Board on Certification in Surgical Technology and Surgical Assisting (NBSTSA) within a four-week period prior to or after graduation.*

*The Surgical Technology Curriculum offers two options – a degree and a diploma program. Completion of a diploma program from an accredited college will qualify students for entry into the Associate Degree program. Certification in Surgical Technology is preferred but not mandatory. Completion of the associate degree program is highly recommended as it prepares the graduate to be a practitioner with a broader knowledge base in the field of Surgical Technology.*

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Surgical Technology (A45740)

#### Associate in Applied Science Degree Program

		Course Hours Per Week			Semester
		Class	Lab	Clinical	Hours Credit
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
BIO-163	Basic Anat & Physiology <u>or</u>				
BIO-165	Anatomy and Physiology I	***	***	0	4-5
SUR-110	Intro to Surg Tech	3	0	0	3
SUR-111	Periop Patient Care	5	6	0	7
***	PSY/SOC Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		***	***	0	18-19
<b>SECOND SEMESTER (Spring)</b>					
BIO-166	Anatomy and Physiology II (if BIO-165 taken in Fall)	***	***	0	0-4
BIO-275	Microbiology <u>or</u>				
BIO-175	General Microbiology	***	***	0	3-4
SUR-122	Surgical Procedures I	5	3	0	6
SUR-123	Sur Clinical Practice I	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		***	***	21	16-21
<b>THIRD SEMESTER (Summer)</b>					
ENG-111	Writing and Inquiry	3	0	0	3
SUR-134	Surgical Procedures II	5	0	0	5
SUR-135	SUR Clinical Practice II	0	0	12	4
SUR-137	Prof Success Prep	<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>
		9	0	12	13
<b>FOURTH SEMESTER (Fall)</b>					
ENG-112	Writing/Research in the Disc <u>or</u>				
ENG-114	Prof Research & Reporting	3	0	0	3
COM-231	Public Speaking	3	0	0	3

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***	Humanities/Fine Arts Elective	3	0	0	3
***	Natural Sciences/Math Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		12	0	0	12
<b>FIFTH SEMESTER (Spring)</b>					
BUS-137	Principles of Management	3	0	0	3
BUS-255	Org Behavior in Business <i>or</i>				
BUS-230	Small Business Management	3	0	0	3
SUR-210	Adv SUR Clinical Practice	0	0	6	2
SUR-211	Adv Theoretical Concepts	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		8	0	6	10
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>70</u></b>

## Surgical Technology (D45740)

### Diploma Program

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
BIO-163	Basic Anat & Physiology <i>or</i>				
BIO-165	Anatomy and Physiology I	***	***	0	4-5
SUR-110	Intro to Surg Tech	3	0	0	3
SUR-111	Periop Patient Care	5	6	0	7
***	PSY/SOC Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		***	***	0	18-19
<b>SECOND SEMESTER (Spring)</b>					
BIO-166	Anatomy and Physiology II (if BIO-165 taken in Fall)	***	***	0	0-4
BIO-275	Microbiology <i>or</i>				
BIO-175	General Microbiology	***	***	0	3-4
SUR-122	Surgical Procedures I	5	3	0	6
SUR-123	SUR Clinical Practice I	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		***	***	21	16-21
<b>THIRD SEMESTER (Summer)</b>					
ENG-111	Writing and Inquiry	3	0	0	3
SUR-134	Surgical Procedures II	5	0	0	5
SUR-135	SUR Clinical Practice II	0	0	12	4
SUR-137	Prof Success Prep	<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>
		9	0	12	13
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>48</u></b>

## Surveying Technology (See Geomatics)

Surveying Technology's name has been changed and now appears in the *Catalog* under the title "Geomatics Technology."

## Therapeutic Massage

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.

*The North Carolina Board of Massage and Bodywork Therapy may deny a license to practice massage and bodywork therapy if an applicant has a criminal record or there is other evidence that indicates the applicant lacks good moral character.*

*Because the use of computers is integral to this curriculum, some courses are delivered in an online and hybrid format.*

### Therapeutic Massage (A45750)

#### Associate in Applied Science Degree Program

		Course Hours Per Week			Semester
		Class	Lab	Clinical	Hours Credit
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
BIO-163	Basic Anat & Physiology <u>or</u>				
BIO-165	Anatomy and Physiology I	***	***	0	4-5
MED-120	Survey of Med Terminology	2	0	0	2
MTH-110	Fundamentals of Massage	6	9	3	10
PSY-150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		***	***	3	20-21
<b>SECOND SEMESTER (Spring)</b>					
BIO-166	Anatomy and Physiology II (if BIO-165 was taken)	***	***	0	0-4
ENG-111	Writing and Inquiry	3	0	0	3
MTH-120	Ther Massage Applications	<u>6</u>	<u>9</u>	<u>3</u>	<u>10</u>
		***	***	3	13-17
<b>THIRD SEMESTER (Summer)</b>					
BIO-271	Pathophysiology	3	0	0	3
MTH-125	Ethics of Massage	2	0	0	2

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MTH-130	Therapeutic Massage Mgmt	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		7	0	0	7
<b>FOURTH SEMESTER (Fall)</b>					
BUS-230	Small Business Management	3	0	0	3
MTH 210	Adv Skills of Massage	4	9	3	8
PED-***	PED Activity Course Elective	0	***	0	1
***	SOC/PSY Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		10	***	3	15
<b>FIFTH SEMESTER (Spring)</b>					
COM-***	COM Elective	3	0	0	3
MTH 220	Outcome-Based Massage	4	6	3	7
WBL-111	Work-Based Learning I	0	10	0	1
***	Humanities/Fine Arts Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		10	16	3	14
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>70</u></b>

**Therapeutic Massage (D45750)****Diploma Program**

		Course Hours Per Week			Semester
		Class	Lab	Clinical	Hours
					Credit
<b>FIRST SEMESTER (Fall)</b>					
ACA-115	Success & Study Skills	0	2	0	1
BIO-163	Basic Anat & Physiology <i>or</i>				
BIO-165	Anatomy and Physiology I	***	***	0	4-5
MED-120	Survey of Med Terminology	2	0	0	2
MTH-110	Fundamentals of Massage	6	9	3	10
PSY-150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		***	***	3	20-21
<b>SECOND SEMESTER (Spring)</b>					
BIO-166	Anatomy and Physiology II (if BIO-165 was taken)	***	***	0	0-4
ENG-111	Writing and Inquiry	3	0	0	3
MTH-120	Ther Massage Applications	<u>6</u>	<u>9</u>	<u>3</u>	<u>10</u>
		***	***	3	13-17
<b>THIRD SEMESTER (Summer)</b>					
BIO-271	Pathophysiology	3	0	0	3
MTH-125	Ethics of Massage	2	0	0	2
MTH-130	Therapeutic Massage Mgmt	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
		7	0	0	7
<b><u>Total Required Minimum Semester Hours Credit</u></b>					<b><u>41</u></b>

## GENERAL DEGREE PROGRAM

Sandhills Community College offers a general associate degree program, the Associate in General Education. This program is designed for students who wish to earn a two-year associate's degree and choose courses related to their personal or occupational interests.

### Associate in General Education

The Associate in General Education degree 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 fields of interest and become better qualified for a wide range of employment opportunities. Although Associate in General Education is not a transfer degree, students who decide to continue their studies at a senior institution may receive transfer credit for some of the courses taken at Sandhills. Acceptance of courses for transfer credit will be evaluated on a course-by-course basis by the receiving institution.

### Associate in General Education (A10300) Requirements

COURSES	SEMESTER HOURS
<b>English Composition</b> .....	<b>6</b>
ENG-111 and <b>one</b> of the following: COM-110, COM-120, COM-140, ENG-112 or ENG-114	
<b>Humanities/Fine Arts</b> .....	<b>3</b>
Select <b>one</b> course from the approved general education courses in the following areas:	
Art (ART-111, 114, 115, 121, 131, 132, 171, 240, 241, 283)	
Drama (DRA-111, 126)	
Foreign Languages (FRE-211, 212; SPA-211, 212)	
Interdisciplinary Humanities (HUM-110, 115, 120, 122, 130, 150, 160, 161, 170, 211, 212, 220, 230)	
Literature (ENG-125, 131, 231, 232, 241, 242, 261, 262, 273)	
Music (MUS-110, 111, 112, 121, 122, 125, 126, 210)	
Philosophy (PHI-215, 240)	



Religion (REL-110, 211, 212, 221)

**Social/Behavioral Sciences..... 3**

Select **one** course from the approved general education courses in the following areas:

- Anthropology (ANT-210, 220, 221, 240)
- Economics (ECO-151, 251, 252)
- Geography (GEO-111)
- History (HIS-111, 112, 121, 122, 131, 132, 151, 221, 236)
- Political Science (POL-110, 120, 210, 220)
- Psychology (PSY-118, 141, 150, 237, 239, 241, 249, 255, 259, 263, 265, 271, 275, 281)
- Sociology (SOC-210, 213, 220, 225, 230, 234, 240, 242)

**Natural Sciences/Mathematics ..... 3-4**

Select **one** course from the approved general education courses in the following areas. In addition, you must also place out of or successfully complete DMA-010-DMA-030 to demonstrate competence in fundamental mathematical skills.

- Astronomy (AST-111 and 111A)
- Biology (BIO-110, 111, 112, 120, 130, 140 and 140A, 163, 165, 166, 175, 271, 275)
- Chemistry (CHM-130 and 130A, 151, 152, 251, 252)
- Computer Science (CIS-110, 115)
- Geology (GEL-111)
- Mathematics (MAT-121, 143, 152, 171)
- Physics (PHY-110 and 110A, 131, 151, 152)
- Science (SCI-110)

**Other Required Hours ..... 49-50**

Other required hours include additional general education and professional courses.

- ACA-115 or 122 (1 SHC) is required at Sandhills Community College for college orientation.
- A maximum of 7 SHC in health (HEA 112), physical education (any PED course), and college orientation and/or study skills (ACA-115 and 122) may be included as other required hours.
- Any 100-level or higher curriculum course taught by the College.

**Total Semester Hours Credit (SHC) in Program ..... 64-66**

## Associate in General Education Nursing

The Associate in General Education (AGE)-Nursing is designed for students who wish to begin their study toward the Associate in Nursing degree and a Baccalaureate degree in Nursing as based on Blocks 1 through 3 of the *Uniform Articulation agreement between the University of North Carolina's*

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 GENERAL DEGREE PROGRAMS
 

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*Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) programs and the North Carolina Community College Associate Degree Nursing Programs* which was approved by the State Board of Community colleges and the UNC Board of Governors in February 2015. The AGE-Nursing shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses.

A student who completes an Associate in Applied Science (AAS) in Nursing with a GPA of at least 2.0 and a grade of C or better in the AGE-Nursing courses listed below and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is *guaranteed* admission to the program of his or her choice.

### **Associate in General Education Nursing (A1030N) Requirements**

COURSES	SEMESTER HOURS
<b>English Composition</b> ..... ENG-111 and <b>one</b> of the following: ENG-112 or 114	<b>6</b>
<b>Humanities/Fine Arts</b> ..... Select <b>one</b> course from <b>each</b> of the following approved general education course groups: <b>Group One:</b> Art (ART-111, 114, 115) Music (MUS-110, 112) <b>Group Two:</b> Interdisciplinary Humanities (HUM-115) Philosophy (PHI-215, 240) <b>Group Three:</b> Literature (ENG-231, 232)	<b>9</b>
<b>Social/Behavioral Sciences</b> ..... Take <b>all</b> of the following approved general education courses: Psychology (PSY-150, 241) Sociology (SOC-210) Select <b>one</b> course from <b>each</b> of the following approved general education course groups: <b>Group One:</b> Sociology (SOC-213, 220, 225, 230, 240) <b>Group Two:</b> History (HIS-111, 112, 131, 132)	<b>15</b>

**Natural Sciences ..... 16**

Take **all** of the following approved general education courses:

Biology (BIO-165, 166, 275)

Select **one** sequence from the following approved general education courses:

Chemistry (CHM-151)

Chemistry (CHM-130 and 130A)

**Mathematics ..... 7-8**

Take **all** of the following approved general education courses:

Mathematics (MAT-152)

Select **one** of the following approved general education courses:

Mathematics (MAT-143, 171)

**Other Required Hours ..... 7-8**

Other required hours include additional general education and professional courses.

ACA-122 (1 SHC)

Select **one** course from **each** category below:

**Social Behavioral Science:**

Economics (ECO-251, 252)

Political Science (POL-120)

**Electives - *must take three credits (3 SHC) from the following:***

Chemistry (CHM-152)

Communication (COM-231)

Physical Education (PED-110)

**Total Semester Hours Credit (SHC) in Program ..... 60-62**

## **COLLEGE PROGRAMS FOR HIGH SCHOOL STUDENTS**

Career and College Promise provides a focused means for students to begin completion of college transfer credits or career training prior to their graduation from high school. Courses under Career and College Promise are offered to high school students with no charge for tuition.

Eligible high school students may earn:

- College credit, which is completely transferrable to all UNC System Institutions, as well as many private schools and out-of-state universities and colleges.
- College credit toward a credential, certificate or diploma in a technical career.
- Workforce Continuing Education credit toward an industry-recognized credential or certification.
- A high school diploma and two years of college credit in four to five years through innovative cooperative high schools (Hoke County students only).

Upon meeting eligibility requirements, students may enroll in a college transfer pathway, a career-technical pathway, a Workforce Continuing Education pathway, or the SandHoke Early College (Hoke County students only).

Students may be concurrently enrolled in two pathways as follows:

- Two career-technical pathways,
- Two Workforce Continuing Education pathways,
- One career-technical pathway and one Workforce Continuing Education pathway,
- One college transfer pathway (if eligible) and career technical pathway,
- One college transfer pathway (if eligible) and one Workforce Continuing Education pathway.

Students must maintain a 2.0 grade point average in college courses to participate in the program.

### **College Transfer Pathways**

Students may earn college transfer credits toward 32-35 hours of college credit that will transfer to any public North Carolina university as long as a grade of C or better is earned in each course. Credits may also be accepted for transfer by private or out-of-state schools. Courses may be offered on the SCC campus,

on one of the high school campuses or online. Not all courses are offered at all of the high schools.

### **Career & College Promise College Transfer Pathway Leading to the Associate in Arts (P1012C)**

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. Students must complete the minimum course requirements in all areas prior to enrolling in additional courses even if they are listed as options within the pathway.

#### **GENERAL EDUCATION (31-32 SHC)..... 31-32**

The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC) component of the Comprehensive Articulation Agreement.

#### **English Composition (6 SHC) ..... 6**

The following two English composition courses are required:

ENG-111 Writing and Inquiry (3 SHC)

ENG-112 Writing/Research in the Disc (3 SHC)

#### **Humanities/Fine Arts/Communication (9 SHC)..... 9**

Select **three** courses from the following from at least **two** different disciplines:

ART-111 Art Appreciation (3 SHC)

ART-114 Art History Survey I (3 SHC)

ART-115 Art History Survey II (3 SHC)

COM-231 Public Speaking (3 SHC)

ENG-231 American Literature I (3 SHC)

ENG-232 American Literature II (3 SHC)

ENG-241 British Literature I (3 SHC)

ENG-242 British Literature II (3 SHC)

MUS-110 Music Appreciation (3 SHC)

MUS-112 Introduction to Jazz (3 SHC)

PHI-215 Philosophical Issues (3 SHC)

PHI-240 Introduction to Ethics (3 SHC)

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

Select **three** courses from the following from at least **two** different disciplines:

ECO-251 Principles of Microeconomics (3 SHC)

ECO-252 Principles of Macroeconomics (3 SHC)

HIS-111 World Civilizations I (3 SHC)

HIS-112 World Civilizations II (3 SHC)

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 COLLEGE PROGRAMS FOR HIGH SCHOOL STUDENTS
 

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HIS-131 American History I (3 SHC)  
 HIS 132 American History II (3 SHC)  
 POL-120 American Government (3 SHC)  
 PSY-150 General Psychology (3 SHC)  
 SOC-210 Introduction to Sociology (3 SHC)

**Math (3-4 SHC).....3-4**

Select one course from the following:

MAT-143 Quantitative Literacy (3 SHC)  
 MAT-152 Statistical Methods I (4 SHC)  
 MAT-171 Precalculus Algebra (4 SHC)

**Natural Sciences (4 SHC).....4**

Select 4 SHC from the following course(s):

AST-111 Descriptive Astronomy (3 SHC) *and* AST-111A  
 Descriptive Astronomy Lab (1 SHC)  
 BIO-110 Principles of Biology (4 SHC)  
 BIO-111 General Biology I (4 SHC)  
 CHM-151 General Chemistry I (4 SHC)  
 GEL-111 Introductory Geology (4 SHC)  
 PHY-110 Conceptual Physics (3 SHC) *and* PHY-110A  
 Conceptual Physics Lab (1 SHC)

**Academic Transition (1 SHC).....1**

The following course is required:

ACA-122 College Transfer Success (1 SHC)

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PATHWAY .....32-33**

### **Career & College Promise College Transfer Pathway Leading to the Associate Degree Nursing (P1032C)**

The Career and College Promise (CCP) ADN Pathway is designed for high school juniors and seniors who wish to begin their educational studies toward the Associate in Nursing degree and a Baccalaureate degree in Nursing. The Pathway is based on Block 1 of the *Uniform Articulation Agreement between the University of North Carolina's Registered Nurse to Bachelor of Science in Nursing Programs and the North Carolina Community College Associate Degree Nursing Programs* which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015.

A student who completes and Associate in Applied Science (AAS) in Nursing, which includes courses listed below, with a GPA of at least 2.0 and a grade of C or better and completes the courses in Blocks 2-3 of the *Agreement between the University of North Carolina's Registered Nurse to Bachelor of Science in Nursing Programs* with a GPA of at least 2.0 and a grade of C or better, and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general

education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is guaranteed admission to the program of his or her choice.

**GENERAL EDUCATION (31-32 SHC)..... 31-32**

The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC) component of the Comprehensive Articulation Agreement.

**English Composition (6 SHC) ..... 6**

The following English composition course is required:

ENG-111 Writing and Inquiry (3 SHC)

Select one English composition course from the following:

ENG-112 Writing/Research in the Disc (3 SHC)

ENG-114 Prof Research & Reporting (3 SHC)

**Humanities/Fine Arts/Communication (3 SHC)..... 3**

Select one course from the following:

ART-111 Art Appreciation (3 SHC)

ART-114 Art History Survey I (3 SHC)

ART-115 Art History Survey II (3 SHC)

HUM-115 Critical Thinking (3 SHC)

MUS-110 Music Appreciation (3 SHC)

MUS-112 Introduction to Jazz (3 SHC)

PHI-215 Philosophical Issues (3 SHC)

PHI-240 Introduction to Ethics (3 SHC)

**Social/Behavioral Sciences (6 SHC)..... 6**

The following courses are required:

PSY-150 General Psychology (3 SHC)

PSY-241 Developmental Psych (3 SHC)

**Natural Sciences (8 SHC) ..... 8**

The following courses are required:

BIO-165 Anatomy and Physiology I (4 SHC)

BIO-166 Anatomy and Physiology II (4 SHC)

**Academic Transition (1 SHC) ..... 1**

The following course is required:

ACA-122 College Transfer Success (1 SHC)

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PATHWAY..... 24**

**Career & College Promise College Transfer Pathway  
Leading to the Associate in Science (P1042C)**

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

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the Associate in Science degree and a baccalaureate degree in a STEM or technical major. Students must complete the minimum course requirements in all areas prior to enrolling in additional courses even if they are listed as options within the pathway.

**GENERAL EDUCATION (34 SHC) ..... 34**

The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC).

**English Composition (6 SHC) ..... 6**

The following two English Composition courses are required:

- ENG-111 Writing and Inquiry (3 SHC)
- ENG-112 Writing/Research in the Disc (3 SHC)

**Humanities/Fine Arts/Communication (6 SHC) ..... 6**

Select **two** courses from the following from at least **two** different disciplines:

- ART-111 Art Appreciation (3 SHC)
- ART-114 Art History Survey I (3 SHC)
- ART-115 Art History Survey II (3 SHC)
- COM-231 Public Speaking (3 SHC)
- ENG-231 American Literature I (3 SHC)
- ENG-232 American Literature II (3 SHC)
- ENG-241 British Literature I (3 SHC)
- ENG-242 British Literature II (3 SHC)
- MUS-110 Music Appreciation (3 SHC)
- MUS-112 Introduction to Jazz (3 SHC)
- PHI-215 Philosophical Issues (3 SHC)
- PHI-240 Introduction to Ethics (3 SHC)

**Social/Behavioral Sciences (6 SHC) ..... 6**

Select **two** courses from the following from at least **two** different disciplines:

- ECO-251 Principles of Microeconomics (3 SHC)
- ECO-252 Principles of Macroeconomics (3 SHC)
- HIS-111 World Civilizations I (3 SHC)
- HIS-112 World Civilizations II (3 SHC)
- HIS-131 American History I (3 SHC)
- HIS-132 American History II (3 SHC)
- POL-120 American Government (3 SHC)
- PSY-150 General Psychology (3 SHC)
- SOC-210 Introduction to Sociology (3 SHC)

**Math (8 SHC) ..... 8**

Select two courses from the:

- MAT-171 Precalculus Algebra (4 SHC)
- MAT-172 Pre-calculus Trigonometry (4 SHC)
- MAT-263 Brief Calculus (4 SHC)



MAT-271 Calculus I (4 SHC)

MAT-272 Calculus II (4 SHC)

**Natural Sciences (8 SHC) ..... 8**

Select an 8 SHC two-course sequence from the following course(s):

BIO-111 General Biology I (4 SHC) *and* BIO-112 General Biology II (4 SHC)

CHM-151 General Chemistry I (4 SHC) *and* CHM-152 General Chemistry II (4 SHC)

PHY-151 College Physics I (4 SHC) *and* PHY-152 College Physics II (4 SHC)

PHY-251 General Physics I (4 SHC) *and* PHY-252 General Physics II (4 SHC)

**Academic Transition (1 SHC) ..... 1**

The following course is required:

ACA-122 College Transfer Success (1 SHC)

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PATHWAY ..... 35**

**Career & College Promise College Transfer Pathway  
Leading to the Associate in Engineering (P1052C)**

The CCP College Transfer Pathway Leading to the Associate in Engineering is designed for high school juniors and seniors who wish to begin study toward the Associate in Engineering degree and a baccalaureate degree in a STEM or technical major. Students must complete the minimum course requirements in all areas prior to enrolling in additional courses even if they are listed as options within the pathway.

**GENERAL EDUCATION (28 SHC) ..... 28**

The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC).

**English Composition (6 SHC) ..... 6**

The following two English Composition courses are required:

ENG-111 Writing and Inquiry (3 SHC)

ENG-112 Writing/Research in the Disc (3 SHC)

**Humanities/Fine Arts/Communication (3 SHC) ..... 3**

Select one courses from the following:

ART-111 Art Appreciation (3 SHC)

ART-114 Art History Survey I (3 SHC)

ART-115 Art History Survey II (3 SHC)

COM-231 Public Speaking (3 SHC)

ENG-231 American Literature I (3 SHC)

ENG-232 American Literature II (3 SHC)

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ENG-241 British Literature I (3 SHC)	
ENG-242 British Literature II (3 SHC)	
MUS-110 Music Appreciation (3 SHC)	
MUS-112 Introduction to Jazz (3 SHC)	
PHI-215 Philosophical Issues (3 SHC)	
PHI-240 Introduction to Ethics (3 SHC)	
<b>Social/Behavioral Sciences (3 SHC)</b> .....	<b>3</b>
The following course is required:	
ECO-251 Principles of Microeconomics (3 SHC)	
<b>Math (8 SHC)</b> .....	<b>8</b>
The following courses are required:	
MAT-271 Calculus I (4 SHC)	
MAT-272 Calculus II (4 SHC)	
<b>Natural Sciences (8 SHC)</b> .....	<b>8</b>
Select two courses from the following:	
CHM-151 General Chemistry I (4 SHC)	
PHY-251 General Physics I (4 SHC)	
PHY-252 General Physics II (4 SHC)	
<b>OTHER REQUIRED HOURS</b> .....	<b>12</b>
<b>Academic Transition (1 SHC)</b> .....	<b>1</b>
The following course is required:	
ACA-122 College Transfer Success (1 SHC)	
<b>Engineering (5 SHC)</b> .....	<b>5</b>
The following courses are required:	
DFT-170 Engineering Graphics (3 SHC)	
EGR-150 Introduction to Engineering (2 SHC)	
<b>Foreign Language (6 SHC)</b> .....	<b>6</b>
Take one of the following pairs:	
FRE-111 Elementary French I (3 SHC) <b>and</b> FRE-112 Elementary French II (3 SHC)	
SPA-111 Elementary Spanish I (3 SHC) <b>and</b> SPA-112 Elementary Spanish II (3 SHC)	
<b>TOTAL SEMESTER HOURS CREDIT (SHC) IN PATHWAY</b> .....	<b>40</b>

**Career & College Promise College Transfer Pathway  
Leading to the Associate in Fine Arts in Visual Arts  
(P1062C)**

The CCP College Transfer Pathway Leading to the Associate in Fine Arts in Visual Arts is designed for high school juniors and seniors who wish to

begin study toward the Associate in Fine Arts in Visual Arts and a baccalaureate degree in Fine Arts-Visual Arts.

**GENERAL EDUCATION (25-26 SHC)..... 25**

The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC) of the Comprehensive Articulation Agreement.

**English Composition (6 SHC) ..... 6**

The following two English Composition courses are required:

ENG-111 Writing and Inquiry (3 SHC)

ENG-112 Writing/Research in the Disc (3 SHC)

**Communication and Humanities/Fine Arts (6 SHC) ..... 6**

Select two courses from two different disciplines:

ART-111 Art Appreciation (3 SHC)

COM-231 Public Speaking (3 SHC)

ENG-231 American Literature I (3 SHC)

ENG-232 American Literature II (3 SHC)

ENG-241 British Literature I (3 SHC)

ENG-242 British Literature II (3 SHC)

MUS-110 Music Appreciation (3 SHC)

MUS-112 Introduction to Jazz (3 SHC)

PHI-215 Philosophical Issues (3 SHC)

PHI-240 Introduction to Ethics (3 SHC)

**Social/Behavioral Sciences (6 SHC)..... 6**

Select two courses from two different disciplines:

ECO-251 Principles of Microeconomics (3 SHC)

ECO-252 Principles of Macroeconomics (3 SHC)

HIS-111 World Civilizations I (3 SHC)

HIS-112 World Civilizations II (3 SHC)

HIS-131 American History I (3 SHC)

HIS-132 American History II (3 SHC)

POL-120 American Government (3 SHC)

PSY-150 General Psychology (3 SHC)

SOC-210 Introduction to Sociology (3 SHC)

**Math (3-4 SHC) ..... 3**

Select one course from the following:

MAT-143 Quantitative Literacy (3 SHC)

MAT-152 Statistical Methods I (4 SHC)

MAT-171 Precalculus Algebra (4 SHC)

MAT-271 Calculus I (4 SHC)

MAT-272 Calculus II (4 SHC)

**Natural Sciences (4 SHC) ..... 4**

Select 4 SHC from the following course(s):

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AST-111 Descriptive Astronomy (3 SHC) *and* AST-111A  
     Descriptive Astronomy Lab (1 SHC)  
 BIO-110 Principles of Biology (4 SHC)  
 BIO-111 General Biology I (4 SHC)  
 CHM-151 General Chemistry I (4 SHC)  
 GEL-111 Introductory Geology (4 SHC)  
 PHY-110 Conceptual Physics (3 SHC) *and* PHY-110A  
     Conceptual Physics Lab (1 SHC)

<b>OTHER REQUIRED HOURS</b> .....	<b>7</b>
<b>Academic Transition (1 SHC)</b> .....	<b>1</b>
The following course is required:	
ACA-122 College Transfer Success (1 SHC)	
<b>Art (6 SHC)</b> .....	<b>6</b>
The following two courses are required:	
ART-121 Two-Dimensional Design (3 SHC)	
ART-131 Drawing I (3 SHC)	
<b>TOTAL SEMESTER HOURS CREDIT (SHC) IN PATHWAY</b> .....	<b>32</b>

### **Career & College Promise College Transfer Pathway Leading to the Associate in Fine Arts in Music (P1072C)**

The CCP College Transfer Pathway Leading to the Associate in Fine Arts in Music is designed for high school juniors and seniors who wish to begin study toward the Associate in Fine Arts in Music and a baccalaureate degree in Music.

<b>GENERAL EDUCATION (25-26 SHC)</b> .....	<b>25</b>
The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC) of the Comprehensive Articulation Agreement.	
<b>English Composition (6 SHC)</b> .....	<b>6</b>
The following two English Composition courses are required:	
ENG-111 Writing and Inquiry (3 SHC)	
ENG-112 Writing/Research in the Disc (3 SHC)	
<b>Communications and Humanities/Fine Arts (6 SHC)</b> .....	<b>6</b>
Select two courses from two different disciplines:	
<b>Communication</b>	
COM-120 Intro Interpersonal Com (3 SHC)	
COM-231 Public Speaking (3 SHC)	
<b>Humanities/Fine Arts</b>	
ART-111 Art Appreciation (3 SHC)	
ART-114 Art History Survey I (3 SHC)	
ART-115 Art History Survey II (3 SHC)	

- DRA-111 Theater Appreciation (3 SHC)
- ENG-231 American Literature I (3 SHC)
- ENG-232 American Literature II (3 SHC)
- ENG-241 British Literature I (3 SHC)
- ENG-242 British Literature II (3 SHC)
- MUS-110 Music Appreciation (3 SHC)
- MUS-112 Introduction to Jazz (3 SHC)
- PHI-215 Philosophical Issues (3 SHC)
- PHI-240 Introduction to Ethics (3 SHC)

**Social/Behavioral Sciences (6 SHC)..... 6**

Select two courses from two different disciplines:

- ECO-251 Principles of Microeconomics (3 SHC)
- ECO-252 Principles of Macroeconomics (3 SHC)
- HIS-111 World Civilizations I (3 SHC)
- HIS-112 World Civilizations II (3 SHC)
- HIS-131 American History I (3 SHC)
- HIS-132 American History II (3 SHC)
- POL-120 American Government (3 SHC)
- PSY-150 General Psychology (3 SHC)
- SOC-210 Introduction to Sociology (3 SHC)

**Math (3-4 SHC) ..... 3**

Select one course from the following:

- MAT-143 Quantitative Literacy (3 SHC)
- MAT-152 Statistical Methods I (4 SHC)
- MAT-171 Precalculus Algebra (4 SHC)
- MAT-271 Calculus I (4 SHC)

**Natural Sciences (4 SHC) ..... 4**

Select 4 SHC from the following course(s):

- AST-111 Descriptive Astronomy (3 SHC) *and* AST-111A  
Descriptive Astronomy Lab (1 SHC)
- BIO-110 Principles of Biology (4 SHC)
- BIO-111 General Biology I (4 SHC)
- CHM-151 General Chemistry I (4 SHC)
- GEL-111 Introductory Geology (4 SHC)
- PHY-110 Conceptual Physics (3 SHC) *and* PHY-110A  
Conceptual Physics Lab (1 SHC)

**OTHER REQUIRED HOURS..... 7**

**Academic Transition (1 SHC) ..... 1**

The following course is required:

- ACA-122 College Transfer Success (1 SHC)

**Music (4 SHC) ..... 4**

The following courses are required:

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MUS-111 Fundamentals of Music (3 SHC)

MUS-151 Class Music I (1 SHC)

**Ensemble (2 SHC)..... 2**

Select 2 SHC from the following:

MUS-131 Chorus I (1 SHC)

MUS-132 Chorus II (1 SHC)

MUS-133 Band I (1 SHC)

MUS-134 Band II (1 SHC)

MUS-135 Jazz Ensemble I (1 SHC)

MUS-136 Jazz Ensemble II (1 SHC)

MUS-137 Orchestra I (1 SHC)

MUS-138 Orchestra II (1 SHC)

MUS-141 Ensemble I (1 SHC)

MUS-142 Ensemble II (1 SHC)

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PATHWAY ..... 32**

## Career Technical Pathways

Students may earn college credits toward a credential, certificate or diploma in a technical career. These pathways allow students to explore potential career areas. Courses may be offered on the SCC campus, on one of the high school campuses or online. Not all courses are offered at all of the high schools. A description of the curriculum standards can be found under the specific program in the Applied Science programs section of this *Catalog*.

### Architectural Technology – Residential Construction (C40100HS)

		Course Hours		Semester Hours
		Per Week		
		Class	Lab	Credit
ARC-111	Intro to Architectural Technology	1	6	3
ARC-112	Constr Materials & Methods	3	2	4
ARC-113	Residential Arch Tech	1	6	3
ARC-114	Architectural CAD	1	3	2
ELC-113	Residential Wiring	2	6	4
WLD-112	Basic Welding Process	1	3	2
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

### Architectural Technology – Commercial Construction (C40100H2)

		Course Hours		Semester Hours
		Per Week		
		Class	Lab	Credit
ARC-111	Intro to Architectural Technology	1	6	3

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BPR-130	Print Reading-Construction	3	0	3
CST-241	Planning/Estimating I	2	2	3
ELC-114	Commercial Wiring	2	6	4
SST-140	Green Bldg and Design Concepts	3	0	3
WLD-111	Oxy-Fuel Welding	<u>1</u>	<u>3</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

### Architectural Technology (C40100H3)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
ARC-111	Intro to Architectural Technology	1	6	3
ARC-112	Constr Materials & Methods	3	2	4
ARC-114	Architectural CAD	1	3	2
BPR-130	Print Reading-Construction	3	0	3
CST-241	Planning/Estimating I	2	2	3
SST-140	Green Bldg and Design Concepts	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

### Automotive Systems Technology – Automotive Management (C60160HS)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
ACC-120	Prin of Financial Accounting	3	2	4
ACC-149	Intro to Acc Spreadsheets	1	3	2
AUM-111	Managing Automotive Org	3	0	3
BUS-137	Principles of Management	3	0	3
BUS-153	Human Resource Management	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

### Automotive Systems Technology – C-Tech (C60160H2)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
AUT-141	Suspension & Steering Sys	2	3	3
AUT-141A	Suspension & Steering Lab	0	3	1
AUT-151	Brake Systems	2	3	3
AUT-151A	Brake Systems Lab	0	3	1
TRN-110	Intro to Transport Tech	1	2	2
TRN-140	Transp Climate Control	1	2	2
TRN-140A	Transp Climate Cont Lab	<u>1</u>	<u>2</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>14</u></b>

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### Automotive Systems Technology – Light-Duty Diesels & Emerging Technologies (C60160H3)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
AUT-181	Engine Performance 1	2	3	3
LDD-112	Intro Light-Duty Diesel	2	2	3
LDD-181	Ldd Fuel Systems	2	6	4
TRN-110	Intro to Transport Tech	<u>1</u>	<u>2</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

### Aviation – Aviation Management (C60180HS)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
AER-110	Air Navigation	2	2	3
AER-111	Aviation Meteorology	3	0	3
AER-112	Aviation Laws and FARs	2	0	2
AER-113	History of Aviation	2	0	2
AER-114	Aviation Management	3	0	3
BUS-137	Principles of Management	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

### Aviation – Professional Pilot (C60180H2)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
AER-110	Air Navigation	2	2	3
AER-111	Aviation Meteorology	3	0	3
AER-112	Aviation Laws and FARs	2	0	2
AER-150	Private Pilot Flt Theory	2	2	3
AER-160	Instrument Flight Theory	2	2	3
AER-210	Flight Dynamics	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>17</u></b>

### Baking and Pastry Arts (C55130HS)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
BPA-120	Petit Fours & Pastries	1	4	3
BPA-165	Hot and Cold Desserts	1	4	3
CUL-110	Sanitation & Safety	2	0	2
CUL-110A	Sanitation & Safety Lab	0	2	1
CUL-160	Baking I	<u>1</u>	<u>4</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>



**Bookkeeping (C25800HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
ACC-120	Prin of Financial Accounting	3	2	4
ACC-121	Prin of Managerial Accounting	3	2	4
ACC-140	Payroll Accounting	1	3	2
ACC-149	Intro to Acc Spreadsheets	1	3	2
ACC-180	Practices in Bookkeeping	3	0	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

**Business Administration (C25120HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
ACC-120	Prin of Financial Accounting	3	2	4
ACC-149	Intro to Accounting Spreadsheets	1	2	2
BUS-137	Principles of Management	3	0	3
BUS-148	Survey of Real Estate	3	0	3
CIS-110	Introduction to Computers	2	2	3
MKT-120	Principles of Marketing	3	0	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

**Business Administration – Hospitality Management  
(C25120H2)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
BUS-110	Introduction to Business	3	0	3
BUS-115	Business Law I	3	0	3
BUS-137	Principles of Management	3	0	3
HRM-120	Front Office Procedures	3	0	3
HRM-220	Cost Control – Food & Bev	3	0	3
MKT-120	Principles of Marketing	3	0	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

**Civil Engineering Technology (C40140HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
CEG-210	Construction Materials and Methods	2	3	3
CEG-235	Project Management/Estimating	2	3	3
EGR-115	Intro to Technology	2	3	3
EGR-115A	Intro to Technology Lab	0	3	1
EGR-120	Engineering and Design Graphics	2	2	3

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EGR-150	Intro to Engineering	<u>1</u>	<u>2</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

### Collision Repair and Refinishing Technology – Paint and Refinishing (C60130HS)

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
AUB-111	Paint & Refinishing I	2	6	4
AUB-112	Paint & Refinishing II	2	6	4
AUB-121	Non-Structural Damage I	1	4	3
AUB-162	Autobody Estimating	<u>1</u>	<u>2</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

### Collision Repair and Refinishing Technology – Automotive Fabrication (C60130H2)

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
AUB-111	Painting & Refinishing I	2	6	4
AUB-114	Special Finishes	1	2	2
AUC-112	Auto Custom Fabrication	2	4	4
AUC-114	Custom Fiberglass Skills	<u>2</u>	<u>4</u>	<u>4</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>14</u></b>

### Collision Repair and Refinishing Technology – Non-Structural Repair (C60130H3)

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
AUB-121	Non-Structural Damage I	1	4	3
AUB-122	Non-Structural Damage II	2	6	4
AUB-131	Structural Damage I	2	4	4
AUB-136	Plastics & Adhesives	<u>1</u>	<u>4</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>14</u></b>

### Collision Repair and Refinishing Technology – Structural Repair (C60130H4)

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
AUB-131	Structural Damage I	2	4	4
AUB-132	Structural Damage II	2	6	4
AUT-141	Suspension & Steering Sys	2	3	3

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AUT-141A	Suspension & Steering Lab	0	3	1
TRN-180	Basic Welding for Transp	<u>1</u>	<u>4</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

**Computer Engineering Technology – Repair (C40160HS)**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
CET-111	Computer Upgrade/Repair I	2	3	3
CIS-110	Introduction to Computers	2	2	3
NET-125	Introduction to Networks	1	4	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Computer Engineering Technology - Electronics  
(C40160H2)**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
ACA-115	Success and Study Skills	0	2	1
CIS-110	Introduction to Computers	2	2	3
ELC-131	Circuit Analysis I	3	3	4
ELN-131	Analog Electronics I	<u>3</u>	<u>3</u>	<u>4</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Computer Engineering Technology - Forensics (C40160H3)**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
CET-150	Computer Forensics I	2	3	3
CIS-110	Introduction to Computers	2	2	3
NOS-120	Linux/UNIX Single User	2	2	3
NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Computer Engineering Technology - Networking  
(C40160H4)**

		Course Hours		Semester Hours Credit
		Per Week Class	Per Week Lab	
CIS-110	Introduction to Computers	2	2	3
NET-125	Introduction to Networks	1	4	3
NET-126	Routing Basics	1	4	3

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NOS-130	Windows Single User	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Computer Engineering Technology - Security (C40160H5)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
CIS-110	Introduction to Computers	2	2	3
NET-125	Introduction to Networks	1	4	3
NOS-130	Windows Single User	2	2	3
SEC-110	Security Concepts	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Cosmetology (C55140HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
COS-111	Cosmetology Concepts I	4	0	4
COS-112	Salon I	0	24	8
COS-113	Cosmetology Concepts II	4	0	4
COS-114	Salon II	0	24	8
COS-115	Cosmetology Concepts III	4	0	4
COS-116	Salon III	0	12	4
COS-223	Contemp Hair Coloring	<u>1</u>	<u>3</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>34</u></b>

**Criminal Justice Technology (C55180HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
CJC-111	Intro to Criminal Justice	3	0	3
CJC-112	Criminology	3	0	3
CJC-121	Law Enforcement Operations	3	0	3
CJC-131	Criminal Law	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Culinary Arts (C55150HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
CUL-110	Sanitation & Safety	2	0	2
CUL-110A	Sanitation & Safety Lab	0	2	1
CUL-140	Culinary Skills I	2	6	5
CUL-160	Baking I	1	4	3
CUL-170	Garde Manger	<u>1</u>	<u>4</u>	<u>3</u>

**Total Required Minimum Semester Hours Credit** **14**

### Digital Media Technology (C25210HS)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
DME-110	Intro to Digital Media	2	2	3
DME-120	Intro to Multimedia Appl	2	2	3
DME-130	Digital Animation I	2	2	3
DME-140	Intro to Audio/Video Media	2	2	3
DME-220	Interactive Multimedia Prog	2	2	3
GRD-151	Computer Design Basics	<u>1</u>	<u>4</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

### Digital Media Technology – Web Design (C25210H2)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
GRD-151	Computer Design Basics	1	4	3
WEB-110	Internet/Web Fundamentals	2	2	3
WEB-111	Intro to Web Graphics	2	2	3
WEB-115	Web Markup and Scripting	2	2	3
WEB-140	Web Development Tools	2	2	3
WEB-210	Web Design	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

### Early Childhood Education – Preschool (C55220HS)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
EDU-119	Intro to Early Childhood Ed	4	0	4
EDU-131	Child, Family, & Commun	3	0	3
EDU-145	Child Development II	3	0	3
EDU-146	Child Guidance	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

### Early Childhood Education – Infant/Toddler Care (C55220H2)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
EDU-119	Intro to Early Childhood Ed	4	0	4
EDU-144	Child Development I	3	0	3
EDU-146	Child Guidance	3	0	3

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 COLLEGE PROGRAMS FOR HIGH SCHOOL STUDENTS
 

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EDU-234	Infants, Toddlers, & Twos	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

**Early Childhood Education – School-Age Care (C55220H3)**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
EDU-119	Intro to Early Childhood Ed	4	0	4
EDU-145	Child Development II	3	0	3
EDU-146	Child Guidance	3	0	3
EDU-235	School-Age Develop and Programs	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

**Emergency Medical Science – EMT (C45340HS))**

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
EMS-110	EMT	6	6	3	9
BIO-165	Anatomy and Physiology I	3	3	0	4
BIO-166	Anatomy and Physiology II	<u>3</u>	<u>3</u>	<u>0</u>	<u>4</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>17</u></b>	

**Fire Protection (C55240HS)**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
FIP-120	Intro to Fire Protection	3	0	3
FIP-124	Fire Prevention & Public Ed	3	0	3
FIP-132	Building Construction	3	0	3
FIP-152	Fire Protection Law	<u>3</u>	<u>0</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Geomatics Technology (C40420HS)**

		Course Hours Per Week		Semester Hours Credit
		Class	Lab	
BPR-130	Print Reading-Construction	3	0	3
CEG-111	Intro to GIS and GNSS	2	4	4
EGR-115	Intro to Technology	2	3	3
EGR-115A	Intro to Technology Lab	0	3	1
EGR-120	Eng and Design Graphics	2	2	3
SRV-110	Surveying I	<u>2</u>	<u>6</u>	<u>4</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>18</u></b>

**Health and Fitness Science (C45630HS)**

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
HEA-112	First Aid & CPR	1	2	2
HFS-110	Exercise Science	4	0	4
HFS-111	Fitness & Exer Testing I	3	2	4
HFS-116	Pvnt & Care Exer Injuries	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>13</u></b>

**Health and Fitness Science – Allied Health (C45630H2)**

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
BIO-155	Nutrition	3	0	3
BIO-165	Anatomy and Physiology I	3	3	4
BIO-166	Anatomy and Physiology II	3	3	4
HEA-112	First Aid & CPR	1	2	2
MED-120	Survey of Med Terminology	<u>2</u>	<u>0</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

**Industrial Systems Technology – Industrial Maintenance  
(C50240H2) – Hoke County**

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
ELC-131	Circuit Analysis I	3	3	4
MAC-111	Machining Technology I	2	12	6
MNT-165	Mechanical Industrial Systems	1	3	2
MNT-230	Pumps & Piping Systems	1	3	2
PKG-110	Pkg Machinery I	1	4	3
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>17</u></b>

**IT – Computer Programming and Development – Database  
Programming (C25590H1)**

		Course Hours		Semester
		Per Week		Hours
		Class	Lab	Credit
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CTI-110	Web, Pgm, & Db Foundation	2	2	3
CTI-120	Network & Sec Foundation	2	2	3
MAT-121	Algebra/Trigonometry	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

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### IT – Computer Programming and Development – C# Programming (C25590H2)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CSC-153	C# Programming	2	3	3
CSC-253	Advanced C# Programming	2	3	3
MAT-121	Algebra/Trigonometry	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

### IT – Computer Programming and Development – Visual BASIC (C25590H3)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CSC-139	Visual BASIC Programming	2	3	3
CSC-239	Advanced Visual BASIC Prog	2	3	3
MAT-121	Algebra/Trigonometry	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

### IT – Networking - Cisco (C25590H4)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
NET-125	Introduction to Networks	1	4	3
NET-126	Routing Basics	1	4	3
NET-225	Routing & Switching I	1	4	3
NET-226	Routing & Switching II	<u>1</u>	<u>4</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

### IT – Networking - Security (C25590H5)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
CCT-110	Intro to Cyber Crime	3	0	3
NET-125	Introduction to Networks	1	4	3
SEC-110	Security Concepts	2	2	3
SEC-160	Security Administration I	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>



**Landscape Gardening (C15260HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
ACA-115	Success & Study Skills	0	2	1
HOR-134	Greenhouse Operation	2	2	3
HOR-160	Plant Materials I	2	2	3
LSG-111	Basic Landscape Technique	2	0	2
LSG-121	Fall Gardening Lab	0	6	2
LSG-122	Spring Gardening Lab	0	6	2
MAT-110	Math Measurement & Literacy	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>16</u></b>

**Medical Laboratory Technology (C45420HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
ACA-115	Success and Study Skills	0	2	1
BIO-163	Basic Anat & Physiology	4	2	5
CHM-130	Gen, Org, & Biochemistry	3	0	3
CHM-130A	Gen, Org, & Biochem Lab	0	2	1
MED-120	Survey of Med Terminology	<u>2</u>	<u>0</u>	<u>2</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>

**Medical Office Administration - Medical Coding and Billing  
(C25310HS)**

		Course Hours			Semester Hours Credit
		Per Week			
		Class	Lab		
MED-121	Medical Terminology I	3	0	3	
MED-122	Medical Terminology II	3	0	3	
OST-148	Med Ins & Billing	3	0	3	
OST-247	Procedure Coding	2	2	3	
OST-248	Diagnostic Coding	<u>2</u>	<u>2</u>	<u>3</u>	
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>	

**Nurse Aide (C45840HS)**

		Course Hours Per Week			Semester Hours Credit
		Class	Lab	Clinical	
NAS-101	Nurse Aide I	3	4	3	6
NAS-102	Nurse Aide II	<u>3</u>	<u>2</u>	<u>6</u>	<u>6</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>12</u></b>	

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 COLLEGE PROGRAMS FOR HIGH SCHOOL STUDENTS
 

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**Office Administration (C253700HS)**

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
ACC-120	Prin of Financial Accounting	3	2	4
ACC-149	Intro to Acc Spreadsheets	1	3	2
CIS-110	Introduction to Computers	2	2	3
OST-131	Keyboarding	1	2	2
OST-136	Word Processing	2	2	3
OST-236	Adv Word Processing	<u>2</u>	<u>2</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>17</u></b>

**Simulation and Gaming (C25450HS)**

(some mature content)

		Course Hours		Semester Hours Credit
		Per Week		
		Class	Lab	
SGD-111	Introduction to SGD	2	3	3
SGD-112	SGD Design	2	3	3
SGD-113	SGD Programming	2	3	3
SGD-114	3D Modeling	2	3	3
SGD-212	SGD Design II	<u>2</u>	<u>3</u>	<u>3</u>
<b><u>Total Required Minimum Semester Hours Credit</u></b>				<b><u>15</u></b>

**Workforce Continuing Education Career &  
College Promise (WCE CCP)**

Juniors and seniors may earn a state or industry-recognized credential aligned with a high school Career Cluster preparing them to enter the workforce. Students must have an unweighted GPA of 2.8 on high school courses or have the recommendation of the high school principal; and meet individual pathway requirements as appropriate. Not all courses are offered at all of the high schools.

**Certified Medical Administrative Assistant (MED-CMAA)**

Students may earn a Certified Medical Administrative Assistant (CMAA) credential from the National Healthcareer Association (NHA) making them eligible to enter the workforce as a CMAA.

<b>Continuing Education Units</b>	<b>12</b>
<b>Total Hours</b>	<b>129</b>

**Certified Production Technician (CPT) Level I (MNT-3111)**

Students may earn two Certified Production Technician (CPT) credential for the Manufacturer's Skills Standards Council (MSSC) by successfully completing CPT Safety and Quality modules.

Students who successfully complete the CPT program earning MSSC credentials may be eligible for experiential learning credit toward curriculum courses, earning an Industrial Systems Technology Certificate or up to 13 CU credits toward diploma or A.A.S. in the Industrial Systems Technology program.

<b>Continuing Education Units</b>	<b>13.8</b>
<b>Total Hours</b>	<b>138</b>

**Certified Production Technician (CPT) Level II (MNT-3111)**

Students may earn two Certified Production Technician (CPT) credential for the Manufacturer's Skills Standards Council (MSSC) by successfully completing CPT Manufacturing Process & Procedures, and Maintenance modules.

Students who successfully complete the CPT program earning MSSC credentials may be eligible for experiential learning credit toward curriculum courses, earning an Industrial Systems Technology Certificate or up to 13 CU credits toward diploma or A.A.S. in the Industrial Systems Technology program.

Prerequisite: Students must successfully complete the Certified Production Technician Level I course prior to enrollment.

<b>Continuing Education Units</b>	<b>13.8</b>
<b>Total Hours</b>	<b>138</b>

**Electrical Level I (ELC-3119)**

This course is taught by National Center for Construction Education and Research (NCCER) certified trainers as an entry level course. Successful completion qualifies students to receive the NCCER Electrical Level I Certification and inclusion on the NCCER Registry for Electricians.

<b>Continuing Education Units</b>	<b>29.8</b>
<b>Total Hours</b>	<b>298</b>

**Electrical Level II (ELC-3119)**

This course is taught by National Center for Construction Education and Research (NCCER) certified trainers as an advanced level electrical course. Successful completion qualifies students to receive the NCCER Electrical Level II Certification and inclusion on the NCCER Registry for Electricians.

Prerequisite: Students must successfully complete the NCCER Electrical Level I course prior to enrollment.

<b>Continuing Education Units</b>	<b>29.8</b>
<b>Total Hours</b>	<b>298</b>

**Electrocardiogram Technician (6EKGTEC)**

Students will learn the required skills to earn the certification of Electrocardiogram Technician (EKG) with the American Society for Clinical Pathology (ASCP). The EKG program includes the opportunity to earn a Cardio Pulmonary Resuscitation (CPR) certification. Topics include cardiac anatomy and physiology, cardiac cycle, EKG strip analysis, 12 lead KG, and EKG procedures.

<b>Continuing Education Units</b>	<b>12</b>
<b>Total Hours</b>	<b>129</b>

**Firefighter Academy (FIP-3001)**

This course aligns with the NC Firefighter Certification Program approved by the NC Fire and Rescue Commission for offering as of January 1, 2015, and is designed for preparation as a paid or volunteer firefighter. This block of fire rescue courses consists of course content identified by the NC Fire and Rescue Commission as part of the Firefighter and Hazardous Materials Level 1 Responder certification program. Successful completion of these courses provide students with credit towards the NC Firefighter Certification and may be applied for course credits towards an Associate in Applied Science Degree in Fire Protection Technology.

Students enrolled in the Firefighter Academy pathway must be 16 years of age or older by the first day of class.

<b>Continuing Education Units</b>	<b>50</b>
<b>Total Hours</b>	<b>507</b>

### **Mechanical Power Transmission Fundamentals (MPTF) Level I (MNT-3065)**

This course is designed to prove students with the necessary foundation to understand working with mechanical power transmissions. Topics include reading blueprints, industrial mathematics, linear motion, drilling speed, calculations, and more.

Prerequisite: Students must successfully complete the Certified Production Technician Level I and Certified Production Technician Level II courses prior to enrollment.

<b>Continuing Education Units</b>	<b>13</b>
<b>Total Hours</b>	<b>130</b>

### **Pharmacy Technician (PHM-3250)**

This course prepares students for the Pharmacy Technician Certification Exam provided by the Pharmacy Technician Board (PTCB) for entry-level employment. Topics include technical procedures for preparing and dispensing prescriptions, packaging and labeling, controlled substance procedures, inventory control, pharmacy calculations, and over-the-counter drugs. Upon completion, students should be able to perform basic supervised dispensing techniques in a community pharmacy setting.

Students may sit for the Pharmacy Technician Certification exam after obtaining a high school diploma.

<b>Continuing Education Units</b>	<b>12</b>
<b>Total Hours</b>	<b>129</b>

## **SandHoke Early College**

### **A10100SH and A10400SH**

Through participation in the SandHoke Early College on our Hoke County campus, students may complete a high-school diploma and an Associate of Arts or Associate of Science in five years or less by successfully completing two years of transferable college credit. High-school and college-level credits are earned at an accelerated rate. Students gain support and preparation for college and university success. A description of the Associate of Arts and Associate of Science curriculum standards can be found in the University Studies Program section of this *Catalog*.

## **WORKFORCE CONTINUING EDUCATION (WCE) CAREER CREDIT**

The Workforce Continuing Education Division offers a wide variety of courses designed to meet the needs and interests of the citizens of Moore and Hoke Counties. Through this division, students may acquire or enhance basic academic skills and general knowledge and/or earn industry-recognized credentials and/or train or retrain for employment.

Some courses are offered on a continuing basis while others are developed and offered in response to requests by individuals, business and industry or other community and public service groups. A printed class schedule is available prior to the beginning of a term and offerings are also posted and updated on the Sandhills website at [www.sandhills.edu/continuing-education](http://www.sandhills.edu/continuing-education).

### **Personal Enrichment**

Personal Enrichment at Sandhills Community College provides are designed to enhance the intellectual, physical, and personal well-being of the Sandhills community. It seeks to create new and innovative programs, to promote access to services and community resources, and to participate and collaborate with various community organizations and agencies.

### **Admission**

Any person 18 years or older may enroll in continuing education classes throughout the year. During summer months while local schools are not in operation, persons under 18 are allowed to enroll in continuing education classes as specified by the class offering. During the school year, exceptions can be made for 16 and 17 year-olds who have not completed high school. Students who request admission under these exceptions should contact the Continuing Education Division for special instructions concerning admission and registration.

High school juniors and seniors may enroll in a WCE Career and College Promise (CCP) course offered at their high school in accordance with the CCP guidelines (see College Programs for High School Students).

### **Registration**

Registration for continuing education classes may be completed by contacting our registration office at 910-695-3980 or by visiting [sandhill.edu/cereg](http://sandhill.edu/cereg). Class registration is ongoing and start dates are announced in the printed class schedule and on the Sandhills website at [www.sandhills.edu/continuing-education](http://www.sandhills.edu/continuing-education).

## **Fees**

The N.C. Legislature establishes all fees charged except for self-supporting classes. Fees vary according to specific programs in Continuing Education. College and Career Readiness, Career Development (for those students who qualify), and most small business seminars are offered to students at no cost. Registration fees for occupational classes are determined by the legislature. Classes designated “self-supporting” require varying registration fees. All registration fees are advertised in the printed class schedules. A \$5.00 technology fee is charged for some classes.

A full refund can be made if the class is canceled by the College or if the student requests the refund before the class starts. After the class begins, 75% of the registration fee can be refunded if requested by the 10% attendance point.

Continuing Education students with any outstanding balance may still enroll in occupational extension certification classes and receive continuing education units (CEUs) **1)** if the course section is offered for the benefit of a company or agency and **2)** when course attendance is limited to employees of said company/agency, and **3)** the company/agency pays the tuition. The students will be made aware that the outstanding balance remains on their account. They will be restricted to taking company/agency sponsored classes until the outstanding balance is paid in full.

## **Location of Classes**

Classes are held on the campuses of Sandhills Community College in both Moore and Hoke Counties, at the James H. Garner Center for Community Education in Westmoore, and at designated locations throughout the communities.

## **Continuing Education Units (CEUs)**

The Continuing Education Division will award Continuing Education Units (CEUs) for appropriate programs. The Commission on Colleges defines the CEU as follows: “One Continuing Education Unit (CEU) is ten (10) contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction.”

## **Scholarships**

The Continuing Education Division has a variety of scholarships made available by donors and various partners. Applications are available through the Office of Continuing Education located in Van Dusen Hall.

## **Student Records**

In accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA), student records are maintained in the college's information system. Student information requested by the College, at the time of registration, consists of social security number, name, address, telephone number, date of birth, county of residence, email address, employment status, race, gender, emergency contact information, and level of education completed.

## **Transcripts**

Continuing Education transcripts will be issued only upon students' written authorization to the Office of Continuing Education. A transcript request form and directions can be found online at [www.sandhills.edu/continuing-education/ce-transcripts](http://www.sandhills.edu/continuing-education/ce-transcripts).

A separate process is required for High School Equivalency (HSE) and Adult High School (AHS) transcripts.

All requests for an HSE (to include GED® and HiSET®) transcripts should be directed to Diploma Sender, [www.diplomasender.com](http://www.diplomasender.com) Fees may be applied.

Requests for an AHS transcript should be directed to the Office of Continuing Education. The request form is located online at [www.sandhills.edu/ce-transcripts](http://www.sandhills.edu/ce-transcripts).



## **WORKFORCE CONTINUING EDUCATION (WCE) PROGRAMS (CAREER CREDIT)**

### **Advanced Manufacturing**

The Advanced Manufacturing Program provides training for students seeking to learn new job skills in the construction and industrial trade. Included are National Center for Construction Education and Research (NCCER) certification programs in electrical and welding as well as training in the Manufacturing Skills Standards Council (MSSC) and the Certified Production Technician (CPT) certification program. Additional certification preparation programs are provided in the programmable logics, industrial electronics and manual and CNC machining fields. Training is provided at both the **Palmer Advanced Manufacturing Center** on the main campus and the **Hoke Trades Center** at the Hoke Center. The program provides employment preparation and job opportunity identification for the students.

### **Business and Industry Support Customized Training Program**

The Customized Training Program, part of the Business and Industry Support initiative, administers the North Carolina Community College System Customized Training Program for its service area. This program provides training at no cost to qualifying companies new to the service area or those companies expanding their employment base, implementing new technology, or enhancing the skills of their current workforce to increase their productivity. Through consultation with the Center, the company creates a customized training program specific to the needs of the company. This program is then funded by the North Carolina Community College Customized Training Program and implemented by the Center and the company.

### **Career Development (Pre-Employment Training)**

The Career Development Program provides skill assessment services, employability skills training, and career development counseling to unemployed and underemployed adults. Services and training are designed to assess individuals' strengths, develop the student's positive self-concept, communicate and problem solve, locate and secure employment, and develop computer skills. These goals are achieved through individual classes, coaching, and counseling. The program is fee-waived for those who qualify.

### **Career Readiness Assessment Center**

Sandhills Community College has been designated a Career Readiness Assessment Center by the North Carolina Community College System.

## WORKFORCE CONTINUING EDUCATION PROGRAMS

Through the Career Assessment Readiness Center, the department is authorized to assess individuals for the Career Readiness Certificate (CRC) workforce credentialing system. The credentialing system is based on three ACT WorkKeys assessments: Workplace Documents, Graphic Literacy, and Applied Mathematics. CRCs are awarded on four levels (Bronze, Silver, and Gold) and are based on the levels scored on the assessments. Sandhills Community College is an authorized ACT WorkKeys assessment site.

### **Working Smart**

Developed by Charlotte Works, the Charlotte-Mecklenburg Workforce Development Board, Working Smart is North Carolina's only soft skills certification for workplace success. The 24- to 30- hour program helps students develop competency in Self-Awareness Skills, Employer-Awareness Skills, Self-Management Skills, Conflict Resolution and Critical-Thinking Skills, and Communication Skills. The program is fee-waived for those who qualify.

### **Career Training**

Career Training courses provide instruction and training necessary to complete in today's workforce. Classes are offered to individuals seeking to improve their job marketability by learning new skills, those seeking to earn an industry-recognized credential and for seasoned professionals seeking CEU credit courses to stay abreast of new business practices. Other classes are provided for those who desire understanding of new technologies or who may need to comply with State and/or Federal licensing regulations. For the individual seeking to learn new job skills, courses are offered in areas such as automotive, health care, human services, hospitality and business, and industry. For the individual seeking CEU credit or recertification, courses are offered in areas such as automotive, education, and real estate. Professional development opportunities range from one-day workshops to certification programs in both traditional and online delivery. Sandhills Community College is an authorized Prometric Testing Center for the Automotive Service Excellence (ASE) assessments.

### **Ed2Go Online Training**

Continuing Education Ed2Go online courses provide an option for those seeking a convenient or self-paced option. There are hundreds of online classes available for professional development or personal interests.

### **Allied Health Training**

Allied Health Training courses provide a broad scope of specialized training to meet the local demand of area healthcare industry providers. Included are courses and certification in areas such as Nursing aide, Phlebotomy, EKG (Electrocardiogram Monitoring), Medication Aide, Medical Billing and Coding, Medical Terminology and Anatomy, CMAA (Certified Medical Administrative Assistant), Centile Sterile Processing, and Pharmacy Technician.

### **Technology Training**

Technology Training programs provide up-to-date instruction in many areas of technology for adult learners of all experience level in the **Frick Technology Center**. The program includes instruction in both Apple and personal computer platforms including such topics as operating systems; applications software; personal computer safety; maintenance and repair; 3D printing; tablets; photography and photo editing.

### **Larry R. Caddell Public Safety Training Center**

The Caddell Public Safety Training Center serves the training needs of approximately thirty (30) fire departments in Moore and Hoke counties.

### **Fire and Rescue Training**

Under the auspices of the North Carolina Fire Commission, the college provides certification and training programs (and regional and state training) for fire and rescue personnel. The College offers two biannual Fire Academies each year that provides cadets their Firefighter certification as well as additional Office of the State Fire Marshall certifications.

### **Emergency Medical Services**

Emergency Medical Services training emphasizes initial and upgrade certification programs from the basic First Responder to Advance Life Support. Specialized lifesaving programs are offered to the general public and on site for business and industry.

### **Law Enforcement Training**

Law Enforcement Certification programs. The College provides upgrade and re-certification training programs for law enforcement and corrections personnel. Emphasis is placed on officer skills and duties necessary to enhance job performance and courses required for continued certification in these careers. Special law enforcement topic classes are offered to respond to a rapidly changing environment and based on the needs of the community.

These classes equip law enforcement personnel with the information and skills necessary to serve. Instructional delivery is offered in both traditional and eLearning formats.

## **College and Career Readiness (CCR)**

The **Furches Center for Lifelong Learning** offers a variety of College and Career Readiness (CCR) Programs. These Basic Skills programs provide educational opportunities at no cost to adults who would like to improve their academic skills to function more effectively in society or on the job. In accordance with the Workforce Innovation and Opportunity Act guidelines, students have the option to enroll in a career pathway program while attending a literacy program so they may reach their career goals sooner. Each of the CCR literacy programs are designed to meet students' unique learning needs. Classes are available during day and evening hours at several convenient locations in Moore and Hoke counties. Specific program areas are described below.

### **Adult Basic Education (ABE)**

Adult Basic Education (ABE) classes provide adults 18 or older an opportunity to learn basic reading, writing, and math skills. Students experience firsthand how these skills relate to daily living and the workplace by completing such tasks as reading a newspaper, helping their children with homework, writing a letter, calculating a budget and so much more. Upon completion of eighth grade level work, students may progress into the High School Equivalency (HSE) program to pursue their HSE diploma.

### **High School Equivalency (HSE)**

The High School Equivalency program offers classes at no cost to students providing the knowledge and skills needed to successfully complete the high school equivalency test credential. Students have the option to take either the GED® test or the HiSET® test. Successful completion of either test results in the same High School Equivalency Diploma issued by the North Carolina Board of Community Colleges.

Applicants ages 16 and 17 may apply to the HSE program contingent upon an interview with a Coordinator. All accepted minor applicants must present a signed and notarized *Petition for Admission of a Minor Form* which can be obtained prior to the minor applicant's interview.

The completed petition will indicate applicant's parents, legal guardian, or other person or agency having legal custody and control. It will certify residency and date of birth and appropriate legal relationship of the petitioner

to the applicant and official school drop date as determined by the previous school.

### **Adult High School (AHS)**

Adult High School (AHS) Diploma classes are offered on both the Pinehurst campus and Hoke campus in conjunction with Hoke and Moore County Public Schools. AHS classes provide academic courses to students working to complete their requirements for a high school diploma. Students are placed in courses based on their high school transcripts and on assessment scores. Classes are offered in a lab setting and provide course work in English, mathematics, social studies, science, and electives. The number of credits required are determined by local public school standards. There are no tuition fees.

### **English Language Acquisition (ELA)**

English Language Acquisition (ELA) classes are offered at no cost to adults 18 or older having limited skills in the English language. Instruction is provided in life skills, communication, family and workplace literacy, reading and writing, U.S. culture, and civics. Preparation for the U.S. citizenship test is also available through the ELA class.

## **C. Harlan McCaskill Center**

The C. Harlan McCaskill Center offers programs to meet the training needs of the public service sector and to enhance the cultural, academic, and social enrichment of area citizens.

### **Small Business Center**

In an effort to increase the success rate and the number of viable small businesses in North Carolina, the Small Business Center provides high quality, readily accessible assistance to prospective and existing small business owners ultimately leading to job creation and retention. The Sandhills Community College Small Business Center is a community-based provider of education and training, counseling, referrals and information.

### **Dedman Center for Business Leadership**

Designed to prepare individuals to become effective leaders in their respective businesses or organizations, the Dedman Center offers an annual Dedman Institute for Business Leadership.

The training explores a variety of leadership topics using powerful and popular leadership texts and materials. Participants are given a well-rounded look at

the elements of leadership in corporate and institutional settings, including academia.

Those completing the program are awarded the *Dedman Fellow in Leadership* from the Sandhills Community College Division of Continuing Education. Participation in the program is made possible through scholarships underwritten by the *Robert Dedman Permanent Endowment to Benefit Sandhills Community College*, an endowment created by the late Robert H. Dedman to support programs at Sandhills.

### **Personal Enrichment**

The Center for Creative Living and the Lifelong Learning Institute, both part of the C. Harlan McCaskill Center, facilitate the learning and participation of individuals in the region. Short-term courses are offered throughout the year allowing participants to strengthen proficiencies; experience cultural, personal, or academic enrichment; and investigate new curiosities promoting self-expansion and lifelong learning. Course topics and offerings range from academics such as foreign languages, art history or debates on issues regarding our current legal processes to developing cultural and personal enrichment through healthy living, art, music, or literature, gardening and green living.

### **College for Kids**

College for Kids is a series of exciting summer youth enrichment and educational programs for students ages 8-14. Programs are designed to provide fun, hands-on learning activities promising to develop and build skills, encourage creativity and fuel a passion for lifelong learning.

### **Alive@25**

Alive@25 is a program designed for those ages 16-21 and recommended for those who have received a traffic violation. The Safety and Health Council of North Carolina has recognized Sandhills Community College as a National Safety Council Public Training Agency accredited to offer defensive driving courses to the public.

## **CURRICULUM COURSE DESCRIPTIONS**

### **How to Read the Course Description**

Each course description begins with a three-letter prefix and a three-digit number that indicate the curriculum and the level of the course. Courses that prepare a student for college-level work are indicated by numbers ranging from 002-098. These courses do not satisfy the requirements for degrees, diplomas, or certificates. Freshman-level University Studies courses (senior college and university transfer) and Applied Science (technical) courses are indicated by numbers ranging from 100 to 199; sophomore-level college transfer and technical courses are numbered 200 through 299.

Courses are listed by course discipline prefix, number, course title, number of semester hours of credit, and, in parentheses, the number of lecture, laboratory and/or work experience/clinical hours, followed by the course prerequisites and corequisites. The symbols F, S, and SS indicate that the course is offered during the fall, spring, or summer semesters. The symbol “AND” indicates the course will be offered “As Needs Demand.” The symbol UGETC represents the Universal General Education Transfer Component as described in the Comprehensive Articulation Agreement (CAA).

### **Student Learning Outcomes**

The three-sentence course description states the purpose of the course, the course content, and course objectives that students must develop in order to complete the course successfully. Each “Course Syllabus” will describe the course objectives in terms of student learning outcomes and describe the methods of assessment that will be used to determine if students have successfully met the course objectives.

### **Semester Hours of Credit**

One semester hour of credit, as indicated in the course descriptions, is earned for a class meeting one hour each week during the semester, with the exception of regular laboratories and manipulative laboratories (experience designed to develop specific job skills). One semester hour of credit is given for each of two or three regular laboratory hours depending upon the type of program. Credit of one semester hour is given for each three hours of manipulative laboratory experience. A credit hour is based upon a 16-week semester or the equivalent amount of time when courses are offered in a Fall2/Spring2, four-week, eight-week, or summer session. The descriptions below indicate the total amount of class (lecture), lab, clinical, or work-based learning experience time during a semester per credit hour. For each credit hour, students are also expected to complete two additional hours of study and reflection related to the student learning outcomes.

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## CURRICULUM COURSE DESCRIPTIONS

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- **Lecture Hours:** Credit of one semester hour is awarded for each 16 hours of “class work” (or “lecture hour”). Class work is lecture and other classroom instruction. Class work is under the supervision of an instructor.
- **Experiential Lab Hours:** Credit of one semester hour is awarded for each 32 hours of “experiential laboratory work.” Experiential laboratory work means instruction given to a student by an instructor to increase the student's knowledge and skills without immediate student application.
- **Faculty Directed Lab Hours:** Credit of one semester hour is awarded for each 48 hours of “faculty directed laboratory work.” Faculty directed laboratory involves structured and coordinated demonstration by an instructor with immediate student application.
- **Clinical Practice Hours:** Credit of one semester hour is awarded for each 48 hours of “clinical practice.” Clinical practice is a structured, faculty-directed learning experience in a health sciences program which develops job proficiency. Clinical practice requires significant preparation, coordination, and scheduling by the faculty and is under the supervision of an instructor or preceptor who is qualified for the particular program.
- **Work-Based Learning Hours:** Credit of one semester hour is awarded for each 160 hours of “work experience” such as cooperative education courses. Work experience involves the development of job skills by providing the student with employment that is directly related to, and coordinated with, the educational program. Student activity in work experience is planned and coordinated by a college representative, and the employer is responsible for the control and supervision of the student on the job.
- **eLearning and Hybrid:** eLearning (course delivery is 100% online) and hybrid courses (a portion of the course delivery is lecture or lab with the remaining required time to be in appropriate online activities) require that the amount of course time is equivalent to the “class work” and “laboratory work” that is expected in traditional face-to-face lecture, laboratory, clinical, and practicum courses.

### Course Prerequisites and Corequisites

Some course prerequisites and corequisites are specified in the statewide Combined Course Library (CCL); others are specified as local (Sandhills Community College) requirements. Students who have not completed the specified courses may satisfy prerequisites and corequisites prior to course enrollment by following one of the following procedures described in the “Academic Policies and Procedures” section of this *Catalog*: Credit by examination, credit for military training, advanced placement (AP) courses,



academic petition/course substitution, credit for college tech prep students, course requisites waiver, or credit for experiential learning.

<b>DMA, DRE, ENG, and MAT Prerequisites</b>	
To enroll in the courses in Column 1, you must also complete, have transfer credit for, or place out of the DMA, DRE, ENG, and MAT courses in Column 2 in addition to other course pre- and co-requisites listed in the "Curriculum Course Descriptions."	
ACC-120, 131	DRE-098 or ENG-002 and DMA-010 through 030 or MAT-003
ANT-210, 220, 221, 240	DRE-097 or ENG 002
ARC-230	MAT-121 or MAT-171
ART-111	DRE-097 or ENG-002
ART-114, 115	DRE-098 or ENG-002
AST-111, 111A	DRE-097 or ENG-002 and DMA-010 through 030 or MAT-003
BIO 094	DRE-098, ENG-002 or ENG-111 is a corequisite
BIO-110, 140, 140A, 155	DRE-097 or ENG-002
BIO-111, 163, 165	DRE-098 or ENG-002
BPA-210, 220, 250	DRE-097 or ENG-002
BUS-110, 115, 125, 137, 139, 153, 230, 255	DRE-098 or ENG-002
BUS-121	DRE-098 or ENG-002 and DMA-010 through 030 or MAT-003
BUS-228	DRE-098 or ENG-002 and MAT-143
BUS-260	ENG-111
CEG-211	MAT-121, MAT-171, DMA-060 through 080, or MAT-003
CHM-151	DMA-010 through 040, MAT-003 w/P2, MAT-021, MAT-043, MAT-052, or MAT-071
CIS-115	DMA-010 through 040, MAT-003, MAT-121, or MAT-171
COM-150	ENG-111
COS-111, 112	DRE-096 or ENG-002
CSC-134, 139, 151, 153	DMA-010 through 040 or MAT-003
CST-241	MAT-121 or MAT-171
CUL-120, 140, 160, 170	DMA-010 through 030 or MAT-003
CUL-214, 240, 260	DRE-097 or ENG-002
DMA-020	DMA-010
DMA-030	DMA-010, 020
DMA-040	DMA-010, 020, 030
DMA-050	DMA-010, 020, 030, 040
DMA-060	DMA-010, 020, 030, 040, 050

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 CURRICULUM COURSE DESCRIPTIONS
 

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<b>DMA, DRE, ENG, and MAT Prerequisites</b>	
To enroll in the courses in Column 1, you must also complete, have transfer credit for, or place out of the DMA, DRE, ENG, and MAT courses in Column 2 in addition to their course pre- and co-requisites listed in the "Curriculum Course Descriptions."	
DMA-070	DMA-010, 020, 030, 040, 050, 060
DMA-080	DMA-010, 020, 030, 040, 050, 060, 070
DRE-097	DRE-096
DRE-098	DRE-097
ECM-210	DRE-097 or ENG-002
ECO-151, 251, 252	DRE-098 or ENG-002 and DMA-010 through 050 or MAT-003
EDU-119	DRE-096 or ENG-002
EDU-146, 151, 153, 157, 184	DRE-097 or ENG-002
EDU-131, 235, 251, 271, 275, 280	DRE-098 or ENG-002
EDU-144, 145, 157, 184	DRE-097, ENG-002, or ENG-111 is a corequisite
EDU-216, 221, 234, 259, 261, 284	DRE-098, ENG-002 or ENG-111 is a corequisite
EDU-262	DRE-098, ENG-002 or ENG-111
ENG-111	DRE-098 or ENG-002 w/P2
ENG-112, 114, 125	ENG-111
ENG-126	ENG-125
ENG-131	ENG-111; ENG-112 or ENG-114 is also a corequisite.
ENG-231, 232, 241, 242, 261, 262, 273	ENG-112 or ENG-114
GCM-110	MAT-110, 121, 143, 152, or 171
GCM-220	ENG-111 and MAT-110, 121, 143, 152, or 171
GEO-111	DRE-097 or ENG-002
HFS-110, 111, 116, 218	DRE-097 or ENG-002
HIS-111, 112, 131, 132, 151, 221, 236	DRE-097 or ENG-002
HIS-121, 122	DRE-096 or ENG-002
HOR-112, 114, 166	MAT-110
HRM-220, 245	DRE-097 or ENG-002
HUM-110, 122, 130, 150, 170	DRE-096 or ENG-002
HUM-115	DRE-098, ENG-002 or ENG-111
HUM-160, 211, 212, 220, 230	ENG-111
MAT-110	DMA-010 through 030 or MAT-003
MAT-121	DMA-010 through 060 or MAT-003 w/P3
MAT-122	MAT-121, minimum grade C
MAT-143, 152	DMA-010 through 050 or MAT-003 w/P3 and DRE-098 or ENG-002 w/P2
MAT-171	DMA-010 through 080, MAT-003 w/P3, or MAT-121, minimum grade C

<b>DMA, DRE, ENG, and MAT Prerequisites</b>	
To enroll in the courses in Column 1, you must also complete, have transfer credit for, or place out of the DMA, DRE, ENG, and MAT courses in Column 2 in addition to other course pre- and co-requisites listed in the "Curriculum Course Descriptions."	
MAT-172, 263	MAT-171, minimum grade C
MAT-271	MAT-172, minimum grade C
MAT-272	MAT-271, minimum grade C
MAT-273, 285	MAT-272, minimum grade C
MED-121	DRE-097 or ENG-002
MKT-120	DRE-097 or ENG-002
NAS-101, 102	DRE-097 or ENG-002
NUR-111	ENG-002 w/P2 or ENG-011; DMA-010 through 050, MAT-003 w/P2, MAT-021, MAT-043, MAT-052 or MAT-071; ENG-111 is a corequisite
NUR-112, 211	ENG-111, minimum grade C
NUR-113, 114, 212, 213	ENG-111, ENG-112 or ENG-114, minimum grade C
NUR-214	ENG-111; ENG-112 or 114 is corequisite
OST-136, 137, 149, 164, 184	ENG-111
OST-141, 155	DRE-097 or ENG-002
OST-286, 289	ENG-112 or ENG-114
PHI-215, 240	ENG-111
PHY-110, 110A	DMA-010 through 030 or MAT-003
PHY-131	MAT-121 or MAT-171
PHY-151	MAT-171
PHY-251	MAT-271
PHY-252	MAT-272
POL-110, 120, 210, 220	DRE-097 or ENG-002
PSY-118, 141	DRE-096 or ENG-002
PSY-150	DRE-097 or ENG-002
SOC-210	DRE-096 or ENG-002
SOC-213, 220, 225, 230, 234, 240, 242	DRE-097 or EBG-002
TRF-110, 120	MAT-110, 121, 143, 152, or 171
TRF-230	ENG 112 or 114; MAT-110, 121, 143, 152, or 171
TRF-260	ENG 112 or 114
WBL-111 CJC, 115 CJC	DRE-097 or ENG-002
WBL-111 GCM	ENG-111
WBL-111 LSG	MAT-110
WBL-121 GCM	ENG-114



understanding of accounting principles and apply those skills to a business organization. (2003 FA)

**ACC-120 Prin of Financial Accounting 4 (3-2) FS SS**

**Prerequisites:** DRE-098 or ENG-002, DMA-010 through 030 or MAT-003

**Corequisites:** None

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. (2003 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**ACC-121 Prin of Managerial Accounting 4 (3-2) FS SS**

**Prerequisites:** ACC-120

**Corequisites:** None

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. (2003 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course or A.A. and A.S.*

**ACC-131 Federal Income Taxes 3 (2-2) F**

**Prerequisites:** DRE-098 or ENG-002, DMA-010 through 030 or MAT-003

**Corequisites:** None

This course provides an overview of federal income taxes for individuals, partnerships, and corporations. Topics include tax law, electronic research and methodologies and the use of technology for the preparation of individual and business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations. (2003 FA)

**ACC-140 Payroll Accounting 2 (1-3) S**

**Prerequisites:** ACC-115 or ACC-120

**Corequisites:** None

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. (2018 FA)

**ACC-149 Intro to Acc Spreadsheets 2 (1-3) FS**

**Prerequisites:** ACC-115 or ACC-120

**Corequisites:** None

This course provides a working knowledge of computer spreadsheets and their use in accounting. Topics include pre-programmed problems, model-building problems,

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 CURRICULUM COURSE DESCRIPTIONS
 

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beginning-level macros, graphics, and what-if analysis enhancements of template problems. Upon completion, students should be able to use a computer spreadsheet to complete many of the tasks required in accounting. (2018 FA)

**ACC-150      Accounting Software Appl      2 (1-3)      S**  
**Prerequisites:**    ACC-115 or ACC-120  
**Corequisites:**    None

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 accurately solve accounting problems. *These concepts are taught using QuickBooks and hands-on training that will provide students with practical experience to take into the workplace. (2018 FA)*

**ACC-151      Acct Spreadsheet Appl      2 (1-3)      S**  
**Prerequisites:**    ACC-149  
**Corequisites:**    None

This course is designed to facilitate the use of spreadsheet technology as applied to accounting principles. Emphasis is placed on using spreadsheet software as a problem-solving and decision-making tool. 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. (2018 FA)

**ACC-180      Practices in Bookkeeping      3 (3-0)      S**  
**Prerequisites:**    ACC-120  
**Corequisites:**    None

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 business. (2003 FA)

**ACC-220      Intermediate Accounting I      4 (3-2)      F**  
**Prerequisites:**    ACC-120, ACC-121  
**Corequisites:**    None

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 extensive analysis of balance sheet components. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards. (2006 SP)

### **AER Aerospace and Flight Training**

**AER-110      Air Navigation      3 (2-2)      F**  
**Prerequisites:**    None  
**Corequisites:**    None

This course covers the basic elements of air navigation, fundamentals of pilotage and dead reckoning, and the use of a plotter, computer, and aerial charts. Topics include pilotage, dead reckoning, radio navigation, LORAN, Global Positioning Systems, and the use of FAA publications. Upon completion, students should be able to interpret aeronautical charts and apply navigational principles. (1997 SU)

- |  |                               |                |            |
|--|-------------------------------|----------------|------------|
| <b>AER-111</b>   | <b>Aviation Meteorology</b>   | <b>3 (3-0)</b> | <b>F</b>   |
| <b>Prerequisites:</b>  | <b>None</b>                   |                |            |
| <b>Corequisites:</b>   | <b>None</b>                   |                |            |
| This course covers the atmosphere, interpretation and measurement of meteorological elements, and the effects of such on aircraft operations and performance. Topics include heat exchanges in the atmosphere; temperature, pressure, stability, clouds, air masses, fronts, and thunderstorms; and the use and interpretation of weather data. Upon completion, students should be able to analyze weather data for flight planning and safe flying. <i>(1997 SU)</i> |                               |                |            |
|  |                               |                |            |
| <b>AER-112</b>   | <b>Aviation Laws and FARs</b> | <b>2 (2-0)</b> | <b>S</b>   |
| <b>Prerequisites:</b>  | <b>None</b>                   |                |            |
| <b>Corequisites:</b>   | <b>None</b>                   |                |            |
| This course provides an in-depth study of the state, federal, and international regulations forming the structure of aviation law. Emphasis is placed on Federal Aviation Regulations Parts 61, 91, and 135 with additional emphasis on legal issues in aviation law. Upon completion, students should be able to apply legal principles and interpret federal air regulations. <i>(1997 SU)</i>   |                               |                |            |
|  |                               |                |            |
| <b>AER-113</b>   | <b>History of Aviation</b>    | <b>2 (2-0)</b> | <b>F</b>   |
| <b>Prerequisites:</b>  | <b>None</b>                   |                |            |
| <b>Corequisites:</b>   | <b>None</b>                   |                |            |
| This course provides a historical survey of the efforts of manned-flight. Topics include the development of aircraft, milestones in aviation, noted pioneers, and the socioeconomic impact of flight upon modern civilization. Upon completion, students should be able to demonstrate an understanding of the advancements that aviation has accrued for society and contemporary changes in aviation. <i>(1997 SU)</i>   |                               |                |            |
|  |                               |                |            |
| <b>AER-114</b>   | <b>Aviation Management</b>    | <b>3 (3-0)</b> | <b>S</b>   |
| <b>Prerequisites:</b>  | <b>None</b>                   |                |            |
| <b>Corequisites:</b>   | <b>None</b>                   |                |            |
| This course covers operation of a flight department on a cost-effective basis and analysis of profit and loss statements. Topics include flight operations costs, aircraft acquisition analysis and cost comparisons, costs versus revenue, and break-even points. Upon completion, students should be able to calculate cost of flight operations and apply monthly and annual budget analysis. <i>(1997 SU)</i>  |                               |                |            |
|  |                               |                |            |
| <b>AER-119</b>   | <b>Aircraft Structures</b>    | <b>2 (2-0)</b> | <b>AND</b> |
| <b>Prerequisites:</b>  | <b>None</b>                   |                |            |
| <b>Corequisites:</b>   | <b>None</b>                   |                |            |
| This course introduces aircraft airframes and associated appliances. Emphasis is placed on strength of materials, aircraft standards, type certificate data sheets, basic airframe construction, and weight and balance fundamentals. Upon completion, students should be able to analyze strength of materials data and apply their analysis to semi-monocoque, full-cantilever, and truss-type airframes. <i>(1997 SU)</i>   |                               |                |            |

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 CURRICULUM COURSE DESCRIPTIONS
 

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<b>AER-150</b>	<b>Private Pilot Flt Theory</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers the aeronautical knowledge required to meet the Federal Aviation Administration regulations for private pilot certification. Topics include the principles of flight, the flight environment, basic aircraft systems and performance, basic meteorology and weather data interpretation, and FAA regulations. Upon completion, students should be able to demonstrate the competencies required for the FAA written examination for a private pilot certificate. (1997 SU)</p>			
<b>AER-151</b>	<b>Flight-Private Pilot</b>	<b>1 (0-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides the hands-on training needed to qualify for a Federal Aviation Administration private pilot certificate. Topics include flight maneuvers (ground procedures, take-offs, climbs, level flight, turns, glides, stalls, slow flight, descents, slips, landings, emergency procedures) and cross-country planning and navigation. Upon completion, students should be able to demonstrate the competencies required for the flight test practical exam for the private pilot certificate. (1997 SU)</p>			
<b>AER-160</b>	<b>Instrument Flight Theory</b>	<b>3 (2-2)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers the required aeronautical knowledge of the Federal Aviation Administration Regulation Instrument Ground School. Topics include a study of instruments, systems, instrument flight charts, instrument flight planning, approach procedures, and the IFR regulations. Upon completion, students should be able to demonstrate the competencies required to complete the FAA written examination for an instrument rating. (1997 SU)</p>			
<b>AER-161</b>	<b>Flight-Instrument Pilot</b>	<b>2 (0-6)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>AER-151</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers instruction and training in instrument flight planning including IFR navigation, VOR, ILS, ADF, and compliance with ATC procedures. Emphasis is placed on approach and navigation procedures, including holding and missed approaches, and development of skill in executing en route and approach procedures. Upon completion, students should be able to plan and execute an IFR flight and demonstrate competencies required for the FAA instrument pilot flight exam. (1997 SU)</p>			
<b>AER-170</b>	<b>Commercial Flight Theory</b>	<b>3 (3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers advanced aircraft control, cross-country operations, and other topics required for the FAA commercial pilot written exam. Emphasis is placed on the principles of aircraft performance and operation, take-off performance, cruise performance, descent and landing performance, and weight and balance computations. Upon completion, students should be able to demonstrate commercial pilot skills and competence in the materials required for the FAA written commercial pilot examination. (1997 SU)</p>			



**AER-171            Flight-Commercial Pilot                            3 (0-6)            S**  
**Prerequisites:**    **AER-151**  
**Corequisites:**    **None**

This course provides the hands-on training needed to qualify for a Federal Aviation Administration commercial pilot certificate. Topics include flight instruction in advanced precision maneuvers, maximum performance take-off and landings, emergency procedures, operation of complex aircraft, aircraft performance, and range and fuel planning. Upon completion, students should be able to demonstrate competence in the areas of the flight test practical exam for the commercial pilot certificate. *(2017 FA)*

**AER-210            Flight Dynamics    3 (3-0)            S**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course covers basic and advanced principles of aerodynamic phenomena and fluid flow. Topics include airflow phenomena; lift/weight/thrust/drag; aircraft configuration characteristics, stability, and control; subsonic, transonic, and supersonic flight; critical Mach numbers; and the V-g Diagram. Upon completion, students should be able to explain the elements of applied aerodynamics and aeronautical engineering which relate directly to the problems of flight operations. *(1997 SU)*

**AER-211            Air Traffic Control    2 (2-0)            F**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course provides a detailed analysis of all aspects of air traffic control. Emphasis is placed on an in-depth analysis of air traffic control, including utilization of the air traffic environment based on the pilot's and controller's perspective. Upon completion, students should be able to operate an aircraft within the national airspace system under FAA air traffic control. *(1997 SU)*

**AER-212            Air Transport Pilot    3 (3-0)            AND**  
**Prerequisites:**    **AER-160, AER-170**  
**Corequisites:**    **None**

This course provides advanced study for the professional pilot. Topics include an in-depth study of B-727/737 weight and balance, high altitude weather, Part 121 FARs, and performance considerations of large aircraft. Upon completion, students should be able to calculate weight and balance of large aircraft, determine performance data, and apply high altitude weather principles. *(1997 SU)*

**AER-213            Avionics    2 (2-0)            AND**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course covers standard navigational and communications equipment and theory. Emphasis is placed on aviation radio spectrum, VHF omnirange, ILS, ADF, transponders, weather radar, flight directors, and autopilots. Upon completion, students should be able to utilize VOR, ADF, ILS, GPS, flight directors, HSI's, and autopilots in the flight environment. *(1997 SU)*

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<b>AER-215</b>	<b>Flight Safety</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers the basic procedures and practices of aircraft accident prevention, accident investigation, and reporting. Topics include a comprehensive review of federal regulations pertinent to aviation safety and analyses of actual aviation accident cases and their causes. Upon completion, students should be able to demonstrate an understanding and respect for specific personal factors such as attitude, motivation, and skill related to flight safety. (1997 SU)</p>			
<b>AER-216</b>	<b>Engines &amp; Systems</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces piston and turbine aircraft engines and associated systems. Topics include aircraft hydraulic, pneumatic, electrical, air conditioning, and pressurization systems along with the theory of engine operations, including power and thrust computations. Upon completion, students should be able to apply principles of engine and systems operation. (1997 SU)</p>			
<b>AER-217</b>	<b>Air Transportation</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers the development and present status of the air transportation system. Topics include federal legislation, characteristics and classification of air carriers, development of the air traffic control system, and the organization and function of the FAA. Upon completion, students should be able to relate the knowledge acquired to career development. (1997 SU)</p>			
<b>AER-218</b>	<b>Human Factors in Aviation</b>	<b>2 (2-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course analyzes interpersonal relationships in the cockpit and related psychological factors that affect pilot performance and efficiency during flight operations. Topics include cockpit management, judgment, aircraft and flight crew coordination and control, physiological factors, responsibility, and decision-making capabilities. Upon completion, students should be able to apply work-proven routines to stress management, crew responsibility, and the team concept in the cockpit. (1997 SU)</p>			
<b>AER-220</b>	<b>Airport Management</b>	<b>2 (2-0)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course examines the major functions of airport management and the concepts underlying airport planning and construction. Topics include forecasting volumes and airport size and design, including master planning, location requirements, site selection, runway configuration, zoning laws, and other considerations. Upon completion, students should be able to demonstrate basic airport management skills including an understanding of the socioeconomic effect of airports on the community. (1997 SU)</p>			



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**ANT-220 Cultural Anthropology 3 (3-0) AND**

**Prerequisites: DRE-097 or ENG-002**

**Corequisites: None**

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. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**ANT-221 Comparative Cultures 3 (3-0) AND**

**Prerequisites: DRE-097 or ENG-002**

**Corequisites: None**

This course provides an ethnographic survey of societies around the world covering their distinctive cultural characteristics and how these relate to cultural change. Emphasis is placed on the similarities and differences in social institutions such as family, economics, politics, education, and religion. Upon completion, students should be able to demonstrate knowledge of a variety of cultural adaptive strategies. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**ANT-240 Archaeology 3 (3-0) AND**

**Prerequisites: DRE-097 or ENG-002**

**Corequisites: None**

This course introduces the scientific study of the unwritten record of the human past. Emphasis is placed on the process of human cultural evolution as revealed through archaeological methods of excavation and interpretation. Upon completion, students should be able to demonstrate an understanding of how archaeologists reconstruct the past and describe the variety of past human cultures. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

## ARC Architecture

**ARC-111 Intro to Arch Technology 3 (1-6) F**

**Prerequisites: None**

**Corequisites: None**

This course introduces basic architectural drafting techniques, lettering, use of architectural and engineer scales, and sketching. Topics include orthographic, axonometric, and oblique drawing techniques using architectural plans, elevations, sections, and details; reprographic techniques; and other related topics. Upon completion, students should be able to prepare and print scaled drawings within minimum architectural standards. Students will also learn to use the HP48 calculator. *(1997 SU)*

<b>ARC-112</b>	<b>Constr Matls &amp; Methods</b>	<b>4 (3-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>ARC-111</b>		
This course introduces construction materials and methodologies. Topics include construction terminology, traditional and alternative materials and their properties, manufacturing processes, construction techniques, and other related topics. Upon completion, students should be able to detail construction assemblies and identify construction materials and properties. (2013 FA)			
<b>ARC-113</b>	<b>Residential Arch Tech</b>	<b>3 (1-6)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>ARC-111, ARC-112</b>		
<b>Corequisites:</b>	<b>None</b>		
This course covers intermediate residential working drawings. Topics include residential plans, elevations, sections, details, schedules, and other related topics. Upon completion, students should be able to prepare a set of residential working drawings that are within accepted architectural standards. (1997 SU)			
<b>ARC-114</b>	<b>Architectural CAD</b>	<b>2 (1-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces basic architectural CAD techniques. Topics include basic commands and system hardware and software. Upon completion, students should be able to prepare and plot architectural drawings to scale within accepted architectural standards. (1998 FA)			
<b>ARC-213</b>	<b>Design Project</b>	<b>4 (2-6)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>ARC-111, ARC-112, ARC-114</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides the opportunity to design and prepare a set of contract documents within an architectural setting. Topics include schematic design, design development, construction documents, and other related topics. Upon completion, students should be able to prepare a set of commercial contract documents. (1998 FA)			
<b>ARC-230</b>	<b>Environmental Systems</b>	<b>4 (3-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>ARC-111; MAT 121 or MAT-171</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces plumbing, mechanical (HVAC), and electrical systems for the architectural environment. Topics include basic plumbing, mechanical, and electrical systems for residential and/or commercial buildings with an introduction to selected code requirements. Upon completion, students should be able to develop schematic drawings for plumbing, mechanical, and electrical systems and perform related calculations. (2014 FA)			

## ART

<b>ART-111</b>	<b>Art Appreciation</b>	<b>3 (3-0)</b>	<b>FS SS</b>
<b>Prerequisites:</b>	<b>DRE-097 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
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			

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able to identify and analyze a variety of artistic styles, periods, and media. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A., and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**ART-114 Art History Survey I 3 (3-0) F**

**Prerequisites:** DRE-098 or ENG-002

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**ART-115 Art History Survey II 3 (3-0) S**

**Prerequisites:** DRE-098 or ENG-002

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A., and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**ART-121 Two-Dimensional Design 3 (0-6) F**

**Prerequisites:** None

**Corequisites:** None

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. (2012 SP) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A., A.F.A. (visual arts), and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**ART-122 Three-Dimensional Design 3 (0-6) S**

**Prerequisites:** None

**Corequisites:** None

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. (2012 SP) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A., A.F.A. (visual arts), and A.S.







**ART-264 Digital Photography I 3 (1-4) F****Prerequisites:** None**Corequisites:** None

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. (2016 FA) This course has been approved to satisfy the following requirement(s):

- Premajor and/or Elective course for A.A. and A.S.

**ART-281 Sculpture I 3 (0-6) S****Prerequisites:** None**Corequisites:** None

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. (1999 FA) This course has been approved to satisfy the following requirement(s):

- Premajor and/or Elective course for A.A. and A.S.

**ART-283 Ceramics I 3 (0-6) FS****Prerequisites:** None**Corequisites:** None

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. (1997 SU) This course has been approved to satisfy the following requirement(s):

- Premajor and/or Elective course for A.A. and A.S.

## AST Astronomy

**AST-111 Descriptive Astronomy 3 (3-0) AND****Prerequisites:** DRE-097 or ENG-002, DMA-010 through 030 or MAT-003**Corequisites:** AST-111A

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. Emphasis will be on the fundamental physics concepts underlying topics studied; students can expect to use computers and the Internet for study and research. (1997 SU) This course has been approved to satisfy the following requirement(s):

- UGETC course for A.A. and A.F.A.
- Natural Science Gen. Ed. course for A.S.
- Natural Science Gen. Ed. course for A.A.S. and A.G.E.

**AST-111A Descriptive Astronomy Lab 1 (0-2) AND****Prerequisites:** DRE-097 or ENG-002, DMA-010 through 030 or MAT-003**Corequisites:** 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





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**AUC-114 Custom Fiberglass Skills 4 (2-4) F**

**Prerequisites:** None

**Corequisites:** None

This course will provide instruction in non-metallic customizing and repair techniques. Emphasis will be placed on diagnosis and repair of cracks, proper use of bonding agents, fiberglass body parts removal/replacement, and custom fabrication techniques using fiberglass materials. Upon completion, students should be able to identify types of fiberglass and demonstrate the ability to properly prepare, apply, and finish fiberglass components. (2006 FA)

### AUM Automotive Management

**AUM-111 Managing Automotive Org 3 (3-0) S**

**Prerequisites:** None

**Corequisites:** None

This course will cover the principles and procedures involved in managing an automotive facility. Emphasis is placed on record maintenance, facility layout, technical service training, personnel management, parts management, and computer-based shop management systems. Upon completion, students should be able to demonstrate procedures used in the day-to-day operations of an automotive facility. (2007 FA)

### AUT Automotive

**AUT-113 Automotive Servicing I 2 (0-6) AND**

**Prerequisites:** TRN-110

**Corequisites:** None

This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment. (2007 FA)

**AUT-116 Engine Repair 3 (2-3) F**

**Prerequisites:** TRN-110

**Corequisites:** AUT-116A

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. (2007 FA)

**AUT-116A Engine Repair Lab 1 (0-3) F**

**Prerequisites:** TRN-110

**Corequisites:** AUT-116

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 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. (2007 FA)

**AUT-141                      Suspension & Steering Sys                      3 (2-3)                      F SS**  
**Prerequisites:**    None  
**Corequisites:**    AUT-141A

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. (2007 FA)

**AUT-141A                      Suspension & Steering Lab                      1 (0-3)                      F SS**  
**Prerequisites:**    None  
**Corequisites:**    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. (2007 FA)

**AUT-151                      Brake Systems                      3 (2-3)                      S**  
**Prerequisites:**    TRN-110  
**Corequisites:**    AUT-151A

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. (2007 FA)

**AUT-151A                      Brakes Systems Lab                      1 (0-3)                      S**  
**Prerequisites:**    TRN-110  
**Corequisites:**    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. (2007 FA)

**AUT-163                      Adv Auto Electricity                      3 (2-3)                      FS**  
**Prerequisites:**    TRN-120  
**Corequisites:**    None

This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion,



## BAF Banking and Finance

**BAF-110**                      **Principles of Banking**    **3 (3-0)**                      **F**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course covers the fundamentals of bank functions in a descriptive fashion. Topics include banks and the monetary system, the relationship of banks to depositors, the payment functions, bank loans and accounting, regulations, and examinations. Upon completion, students should be able to demonstrate an understanding of the business of banking from a broad perspective. (2015 FA)

**BAF-233**                      **Commercial Lending**    **3 (3-0)**                      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces the basic principles and procedures used in commercial lending. Topics include the commercial customer, types of commercial loans, the commercial lending process, financial reports, and regulatory requirements. Upon completion, students should be able to demonstrate the knowledge and skills needed to effectively and profitably service the commercial loan customer. (1997 SU)

## BIO Biology

*Initial student placement in foundation courses is based on individual college placement testing policies and procedures. Students should begin foundation course work at the appropriate level indicated by the college's placement test.*

**BIO-094**                      **Concepts of Human Biology**    **4 (3-2)**                      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **DRE-098, ENG-002, or ENG-111**

This course focuses on fundamental concepts of human biology. Topics include terminology, biochemistry, cell biology, tissues, body systems, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level anatomy and physiology courses. (2014 FA)

**BIO-110**                      **Principles of Biology**    **4 (3-3)**                      **FS SS**

**Prerequisites:**    **DRE-097 or ENG-002**

**Corequisites:**    **None**

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. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A., A.F.A., and A.S.*
- *Natural Science Gen. Ed. course for A.A.S. and A.G.E.*

**BIO-111**                      **General Biology I**    **4 (3-3)**                      **FS**

**Prerequisites:**    **DRE-098 or ENG-002**

**Corequisites:**    **None**

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy

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transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.F.A., and A.S.
- Other Gen. Ed. and Premajor Elective Hour course for A.E.
- Natural Science Gen. Ed. course for A.A.S. and A.G.E.

**BIO-112                  General Biology II    4 (3-3)                  S**

**Prerequisites:**     **BIO-111, minimum grade C**

**Corequisites:**     **None**

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. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.S.
- Natural Science Gen. Ed. course for A.A.
- Natural Science Gen. Ed. course for A.A.S. and A.G.E.

**BIO-120                  Introductory Botany    4 (3-3)                  AND**

**Prerequisites:**     **BIO-110 or BIO-111, minimum grade C**

**Corequisites:**     **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Natural Science Gen. Ed. course for A.A. and A.S.
- Natural Science Gen. Ed. course for A.A.S. and A.G.E.

**BIO-130                  Introductory Zoology    4 (3-3)                  AND**

**Prerequisites:**     **BIO-110 or BIO-111, minimum grade C**

**Corequisites:**     **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Natural Science Gen. Ed. course for A.A. and A.S.
- Natural Science Gen. Ed. course for A.A.S. and A.G.E.

**BIO-140                  Environmental Biology    3 (3-0)                  AND**

**Prerequisites:**     **DRE-097 or ENG-002**

**Corequisites:**     **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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Natural Science Gen. Ed. course for A.A. and A.S.*
- *Natural Science Gen. Ed. course for A.A.S. and A.G.E.*

**BIO-140A Environmental Biology Lab 1 (0-3) AND**  
**Prerequisites: DRE-097 or ENG-002**  
**Corequisites: 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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Natural Science Gen. Ed. course for A.A. and A.S.*
- *Natural Science Gen. Ed. course for A.A.S. and A.G.E.*

**BIO-155 Nutrition 3 (3-0) FS**  
**Prerequisites: DRE-097 or ENG-002**  
**Corequisites: None**

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs. Topics include cultural, religious, and economic factors that influence a person's acceptance of food, as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**BIO-163 Basic Anat & Physiology 5 (4-2) FS SS**  
**Prerequisites: DRE-098 or ENG-002**  
**Corequisites: None**

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 is designed for allied health curricula. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.*

**BIO-165 Anatomy and Physiology I 4 (3-3) FS**  
**Prerequisites: DRE-098 or ENG-002**  
**Corequisites: None**

This course is the first of a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course is designed for allied health and college transfer

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curricula. To ensure the coverage of all topics of anatomy and physiology, BIO-165 and BIO-166 must be taken at the same institution. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.

**BIO-166                  Anatomy and Physiology II                  4 (3-3)                  S SS**

**Prerequisites:**    **BIO-165, minimum grade C**

**Corequisites:**    **None**

This course is the second in a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and the interrelationships of all body systems. This course is designed for allied health and college transfer curricula. To ensure the coverage of all topics of anatomy and physiology, BIO-165 and BIO-166 must be taken at the same institution. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.

**BIO-175                  General Microbiology                  3 (2-2)                  S**

**Prerequisites:**    **BIO-110, BIO-111, BIO-163, or BIO-165; minimum grade C**

**Corequisites:**    **None**

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. (2004 FA) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.

**BIO-271                  Pathophysiology                  3 (3-0)                  SS**

**Prerequisites:**    **BIO-163 or BIO-166; minimum grade C**

**Corequisites:**    **None**

This course provides an in-depth study of human pathological processes and their effects on homeostasis. Emphasis is placed on interrelationships among organ systems in deviations from homeostasis. Upon completion, students should be able to demonstrate a detailed knowledge of pathophysiology. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Natural Science Gen. Ed. course for A.G.E.

**BIO-275                  Microbiology                  4 (3-3)                  FS SS**

**Prerequisites:**    **BIO-110, BIO-111, BIO-163, or BIO-165, minimum grade C**

**Corequisites:**    **None**

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases,

immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms. *(2010 FA) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Natural Science Gen. Ed. course for A.G.E.*

## **BPA Baking and Pastry Arts**

**BPA-120**      **Petit Fours & Pastries**      **3 (1-4)**      **F**

**Prerequisites:**    **CUL-110, CUL-160**

**Corequisites:**    **None**

This course introduces the basic principles of the preparation and plating of a variety of petit fours and individual dessert pastries. Emphasis is placed on traditional and contemporary petit fours and pastries utilizing updated production methods. Upon completion, students should be able to produce individual pastries and petit fours for buffet and special event settings. *(2011 FA)*

**BPA-130**      **European Cakes and Tortes**      **3 (1-4)**      **SS**

**Prerequisites:**    **CUL-110, CUL-160**

**Corequisites:**    **None**

This course introduces the production of a wide variety of classical and modern cakes suitable for restaurants, retail shops and large-scale production. Emphasis is placed on classic cakes using the methods of mixing, filling, glazing and icing. Upon completion, students should be able to prepare, assemble, and decorate gelatin-based and layered tortes and cakes such as Bavarian, Dobos, and Sacher. *(2011 FA)*

**BPA-150**      **Artisan & Specialty Bread**      **4 (1-6)**      **S**

**Prerequisites:**    **CUL-110, CUL-160**

**Corequisites:**    **None**

This course provides an advanced study in the art and craft of bread making. Topics include pertinent formulas and techniques associated with naturally leavened loaves, hearth breads, focaccia, flat breads, and other breads utilizing a variety of grains. Upon completion, students should be able to prepare artisan and specialty breads that meet or exceed the expectations of restaurant and retail publics. *(2003 FA)*

**BPA-165**      **Hot and Cold Desserts**      **3 (1-4)**      **S**

**Prerequisites:**    **CUL-110, CUL-160**

**Corequisites:**    **None**

This course covers the principles and techniques of frozen desserts, soufflés, cobblers, crisps, and strudel dough products. Topics include bombes, parfaits, baked Alaska, ice cream, sorbets, sherbets and granites; hand-stretched strudel products, crepes, and hot/cold soufflés. Upon completion, student should be able to prepare and plate hot and cold desserts with suitable sauces and garnishes. *(2011 FA)*

**BPA-210**      **Cake Design & Decorating**      **3 (1-4)**      **F**

**Prerequisites:**    **BPA-130, CUL-110, CUL-160; DRE-097 or ENG-002**

**Corequisites:**    **None**

This course covers advanced concepts in the design and decoration of wedding cakes and other specialty cakes. Topics include baking, filling, and assembling cakes; cake design; finishing techniques utilizing gum paste, fondant, and royal icing; and

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advanced piping skills. Upon completion, students should be able to design, create, finish and evaluate the quality of wedding and specialty cakes. (2011 FA)

**BPA-220 Confection Artistry 4 (1-6) S**

**Prerequisites:** CUL-110, CUL-160; DRE-097 or ENG-002

**Corequisites:** None

This course introduces the principles and techniques of decorative sugar work and confectionery candy. Topics include nougat, marzipan modeling, pastillage and cocoa painting, confection candy and a variety of sugar techniques including blown, spun, poured and pulled. Upon completion, students should be able to prepare edible centerpieces and confections to enhance dessert buffets and plate presentations. (2003 FA)

**BPA-250 Dessert/Bread Production 5 (1-8) F**

**Prerequisites:** BPA-150; DRE-097 or ENG-002

**Corequisites:** None

This course is designed to merge artistry and innovation with the practical baking and pastry techniques utilized in a production setting. Emphasis is placed on quantity bread and roll-in dough production, plated and platter presentations, seasonal/theme product utilization and cost effectiveness. Upon completion, students should be able to plan, prepare and evaluate breads and desserts within a commercial environment and determine production costs and selling prices. (2012 SU)

**BPA-260 Pastry & Baking Marketing 3 (2-2) S**

**Prerequisites:** BPA-150, BPA-210

**Corequisites:** BPA-250

This course is designed to cover the marketing concepts and merchandising trends utilized in bakery and pastry operations. Emphasis is placed on menu planning, pricing products/strategies, resale and wholesale distribution methods, legal implications, and advertising techniques. Upon completion, students should be able to create a marketing plan that will serve as a basis for a capstone experience. (2011 FA)

### BPR Blueprint Reading

**BPR-111 Print Reading 2 (1-2) S**

**Prerequisites:** None

**Corequisites:** None

This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system. (2013 FA)

**BPR-115 Elc/Fluid Power Diagrams 2 (1-2) S**

**Prerequisites:** None

**Corequisites:** None

This course covers sketching of detail and assembly drawings and reading of hydraulic, pneumatic, electrical, mechanical, and piping schematics. Emphasis is placed on interpretation and communication skills utilizing sketches, symbols, diagrams, and other related topics. Upon completion, students should be able to read, demonstrate an understanding of, and draw sketches and schematics commonly used in industry. (1997 SU)

**BPR-130**      **Print Reading-Construction**      **3 (3-0)**      **F**  
**Prerequisites:**    **None**  
**Corequisites:**    **ARC-111 or EGR-115**

This course covers the interpretation of interpretation of prints and specifications that are associated with design and construction projects. Topics include interpretation of documents for foundations, floor plans, elevations, and related topics. Upon completion, students should be able to read and interpret construction prints and documents. (2013 FA)

### **BUS Business**

**BUS-110**      **Introduction to Business**      **3 (3-0)**      **FS SS**  
**Prerequisites:**    **DRE-098 or ENG-002**  
**Corequisites:**    **None**

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. (2015 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**BUS-115**      **Business Law I**      **3 (3-0)**      **FS**  
**Prerequisites:**    **DRE-098 or ENG-002**  
**Corequisites:**    **None**

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. (2015 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**BUS-116**      **Business Law II**      **3 (3-0)**      **AND**  
**Prerequisites:**    **BUS-115**  
**Corequisites:**    **None**

This course includes the study of the legal and ethical framework of business. Business Organizations, property law, intellectual property law, agency and employment law, consumer law, secured transactions, and bankruptcy 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. (2015 FA)

**BUS-121**      **Business Math**      **3 (2-2)**      **FS**  
**Prerequisites:**    **DRE-098 or ENG-002, DMA-010 through 030 or MAT-003**  
**Corequisites:**    **None**

This course covers fundamental mathematical operations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts to business. (1997 SU)

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<b>BUS-125</b>	<b>Personal Finance</b>	<b>3 (3-0)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>DRE-098 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (1997 SU)</p>			
<b>BUS-137</b>	<b>Principles of Management</b>	<b>3 (3-0)</b>	<b>FS SS</b>
<b>Prerequisites:</b>	<b>DRE-098 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2015 FA) <i>This course has been approved to satisfy the following requirement(s):</i></p> <ul style="list-style-type: none"> <li>• <i>Premajor and/or Elective course for A.A. and A.S.</i></li> </ul>			
<b>BUS-139</b>	<b>Entrepreneurship I</b>	<b>3 (3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>DRE-098 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2008 FA)</p>			
<b>BUS-147</b>	<b>Business Insurance</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course surveys the basic concepts of risk management. Topics include principles and applications of health, property, life, and casualty insurance. Upon completion, students should be able to evaluate different insurance needs and assist an organization in acquiring adequate insurance coverage. (1997 SU)</p>			
<b>BUS-148</b>	<b>Survey of Real Estate</b>	<b>3 (3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces real estate principles and practices. Topics include real estate finance, real estate law, brokerage, land use planning, property management, and valuation. Upon completion, students should be able to explain basic procedures involved in the lease, purchase, and sale of real property. (1997 SU)</p>			
<b>BUS-151</b>	<b>People Skills</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the basic concepts of identity and communication in the business setting. Topics include self-concept, values, communication styles, feelings and emotions, roles versus relationships, and basic assertiveness, listening, and conflict resolution. Upon completion, students should be able to distinguish between unhealthy,</p>			

self-destructive, communication patterns and healthy, non-destructive, positive communication patterns. (1997 SU)

**BUS-153            Human Resource Management            3 (3-0)            F**

**Prerequisites:** DRE-098 or ENG-002

**Corequisites:** None

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. (1997 SU)

**BUS-225            Business Finance            3 (2-2)            F**

**Prerequisites:** ACC-120

**Corequisites:** None

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management. (1997 SU)

**BUS-228            Business Statistics            3 (2-2)            AND**

**Prerequisites:** DRE-098 or ENG-002 and MAT-143

**Corequisites:** None

This course introduces the use of statistical methods and tools in evaluating research data for business applications. Emphasis is placed on basic probability, measures of spread and dispersion, central tendency, sampling, regression analysis, and inductive inference. Upon completion, students should be able to apply statistical problem solving to business. (2014 FA)

- *Premajor and/or Elective course for A.A. and A.S.*

**BUS-230            Small Business Management            3 (3-0)            FS**

**Prerequisites:** DRE-098 or ENG-002

**Corequisites:** None

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. (1997 SU)

**BUS-238            Integrated Management            3 (3-0)            S**

**Prerequisites:** BUS-137; ACC-121 or BUS-225

**Corequisites:** None

This course provides a management simulation exercise in which students make critical managerial decisions based upon the situations that arise in operating competitive business enterprises. Topics include operations management, forecasting, budgeting, purchasing, facility layout, aggregate planning, and work improvement techniques. Upon completion, students should be able to perform the variety of analytical and decision-making requirements that will be faced in a business. (1997 SU)

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**BUS-255**      **Org Behavior in Business**      **3 (3-0)**      **S**  
**Prerequisites:**    **DRE-098 or ENG-002**  
**Corequisites:**    **None**

This course covers the impact of different management practices and leadership styles on worker satisfaction and morale, organizational effectiveness, productivity, and profitability. Topics include a discussion of formal and informal organizations, group dynamics, motivation, and managing conflict and change. Upon completion, students should be able to analyze different types of interpersonal situations and determine an appropriate course of action. (1997 SU)

**BUS-260**      **Business Communication**      **3 (3-0)**      **FS**  
**Prerequisites:**    **ENG-111**  
**Corequisites:**    **None**

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. (2014 SP)

### CCT Cyber Crime Technology

**CCT-110**      **Intro to Cyber Crime**      **3 (3-0)**      **AND**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

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. (2001 FA)

### CEG Civil Engineering and Geomatics

**CEG-111**      **Intro to GIS and GNSS**      **4 (2-4)**      **S**  
**Prerequisites:**    **None**  
**Corequisites:**    **CIS-110 or CIS-111**

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. (2013 FA)

**CEG-210**      **Construction Mtls & Methods**      **3 (2-3)**      **F**  
**Prerequisites:**    **None**  
**Corequisites:**    **EGR-115**

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. (2013 FA)



**CEG-211 Hydrology & Erosion Control 3 (2-3) F**

**Prerequisites:** MAT-121, MAT-171, DMA-060 through 080, or MAT-003

**Corequisites:** None

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. (2017 FA)

**CEG-212 Intro to Environmental Tech 3 (2-3) S**

**Prerequisites:** EGR-251

**Corequisites:** None

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. (2013 FA)

**CEG-230 Subdivision Planning & Design 3 (1-6) S**

**Prerequisites:** EGR-120, CEG-211, SRV-111

**Corequisites:** None

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. (2013 FA)

**CEG-235 Project Management/Estimating 3 (2-3) S**

**Prerequisites:** CEG-115, CIS-110, CIS-111, EGR-115, or EGR-125

**Corequisites:** None

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. (2014 SU)

## CET Computer Engineering Technology

**CET-111 Computer Upgrade/Repair I 3 (2-3) F SS**

**Prerequisites:** None

**Corequisites:** None

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. (2007 FA)

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**CET-150**      **Computer Forensics I**      **3 (2-3)**      **AND**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course is an introduction to computer forensic concepts, with emphasis on computer forensic methods and best practices. Topics include computer system analysis, physical and logical storage methods for different types of media, tools to recover and analyze data from storage media, system security. Upon completion, students should be able to use diagnostic and investigative techniques to identify and retrieve data from various types of computer media. (2007 FA)

**CET-211**      **Computer Upgrade/Repair II**      **3 (2-3)**      **S**  
**Prerequisites:**    **CET-111**  
**Corequisites:**    **None**

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. (2007 FA)

**CET-250**      **Computer Forensics II**      **3 (2-3)**      **AND**  
**Prerequisites:**    **CET-150**  
**Corequisites:**    **None**

This course is a study in computer forensic practices with emphasis placed on methods used for prevention, detection, and apprehension of perpetrators of cyber-criminal activity. Topics include the roles of Chief Security Officers in the securing of system breaches, vulnerabilities, network and server security issues, OS and application security risks. Upon completion students should be able to identify and collect evidence to prove unauthorized and inappropriate access on computer systems and networks. (2007 FA)

### CHM Chemistry

**CHM-130**      **Gen, Org, & Biochemistry**      **3 (3-0)**      **F**  
**Prerequisites:**    **None**  
**Corequisites:**    **CHM-130A**

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. Course is suitable for placement in the ADN program. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.*

**CHM-130A**      **Gen, Org, & Biochem Lab**      **1 (0-2)**      **F**

**Prerequisites:**    **None**

**Corequisites:**    **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. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.*

**CHM-151**      **General Chemistry I**      **4 (3-3)**      **FS SS**

**Prerequisites:**    **DMA-010 through 040, MAT-003 w/P2, MAT-021, MAT-043, MAT-052, or MAT-071**

**Corequisites:**    **None**

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. The laboratory work emphasizes quantitative determinations utilizing volumetric, gravimetric, and instrumental analysis. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A., A.E., A.F.A. and A.S.*
- *Natural Science Gen. Ed. course for A.A.S. and A.G.E.*

**CHM-152**      **General Chemistry II**      **4 (3-3)**      **FS SS**

**Prerequisites:**    **CHM-151, minimum grade C**

**Corequisites:**    **None**

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. The laboratory work emphasizes quantitative determinations utilizing volumetric, gravimetric, and instrumental analysis. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.S.*
- *Other Gen. Ed. and Premajor Elective course for A.E.*
- *Natural Science Gen. Ed. course for A.A.S. and A.G.E.*

**CHM-251**      **Organic Chemistry I**      **4 (3-3)**      **F**

**Prerequisites:**    **CHM-152, minimum grade C**

**Corequisites:**    **None**

This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM-252. The laboratory work is designed to develop basic laboratory techniques of synthesis, purification and identification with an



- *Mathematics Gen. Ed. course for A.A. and A.S.*

### **CIV Civil Engineering**

**CIV-111                Soils and Foundations                                4 (2-4)                F**

**Prerequisites:**    **EGR-251**

**Corequisites:**    **None**

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. (2013 FA)

**CIV-221                Steel and Timber Design                                3 (2-3)                F**

**Prerequisites:**    **EGR-251**

**Corequisites:**    **None**

This course introduces the basic elements of steel and timber structures. Topics include strength of materials applications, the analysis and design of steel and timber beams, columns, and connections and concepts of structural detailing. Upon completion, students should be able to analyze, design, and draw simple plans using Computer Aided Drafting and Design software (CADD). (2013 FA)

**CIV-222                Reinforced Concrete                                3 (2-3)                S**

**Prerequisites:**    **EGR-251**

**Corequisites:**    **None**

This course introduces the basic elements of reinforced concrete structures. Topics include analysis and design of reinforced concrete beams, slabs, columns, footings, and retaining walls. Upon completion, students should be able to analyze and design components of a structure using reinforced concrete and draw simple plans using Computer Aided Drafting and Design software (CADD). (2013 FA)

### **CJC Criminal Justice**

*Admission to the BLET program is required before enrolling in CJC-100. Students with credit for CJC-100 should consult with the program coordinator about credits for some CJC course offerings as noted in the program catalog entry.*

**CJC-100                Basic Law Enforcement Training                                20 (10-30)        FS SS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course covers the basic skills and knowledge needed for entry-level employment as a law enforcement officer in North Carolina. Topics are divided into general units of study: legal, patrol duties, law enforcement communications, investigations, practical application and sheriff-specific. Upon successful completion, the student will be able to demonstrate competence in the topics and areas required for the state comprehensive certification examination. *This is a certificate-level course.* (2018 SP)

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**CJC-111 Intro to Criminal Justice 3 (3-0) F**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

**CJC-112 Criminology 3 (3-0) F**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**CJC-113 Juvenile Justice 3 (3-0) FS**

**Prerequisites:** None

**Corequisites:** None

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. *Students who have successfully completed CJC-100, Basic Law Enforcement, may receive credit for CJC-113.* (1997 SU)

**CJC-120 Interviews/Interrogations 2 (1-2) FS**

**Prerequisites:** None

**Corequisites:** None

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. *Students who have successfully completed CJC-100, Basic Law Enforcement, may receive credit for CJC-120.* (1997 SU)

**CJC-121 Law Enforcement Operations 3 (3-0) FS**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

**CJC-131 Criminal Law 3 (3-0) S**

**Prerequisites:** None

**Corequisites:** None

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. *Students who have successfully completed CJC-100, Basic Law Enforcement, may receive credit for CJC-131. (1997 SU)*

**CJC-132 Court Procedure & Evidence 3 (3-0) S**

**Prerequisites:** None

**Corequisites:** None

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. *Students who have successfully completed CJC-100, Basic Law Enforcement, may receive credit for CJC-132. (1997 SU)*

**CJC-141 Corrections 3 (3-0) FS**

**Prerequisites:** None

**Corequisites:** None

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. *(1997 SU)*  
*This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**CJC-212 Ethics & Comm Relations 3 (3-0) S SS**

**Prerequisites:** None

**Corequisites:** None

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. *(1997 SU)*

**CJC-221 Investigative Principles 4 (3-2) FS**

**Prerequisites:** None

**Corequisites:** None

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





## COM Communication

**COM-110 Introduction to Communication 3 (3-0) FS SS**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Communications Gen. Ed. course for A.A. and A.S.*
- *Other Gen. Ed. and Premajor Elective Hours course for A.E.*
- *Communication course for A.A.S. and A.G.E.*

**COM-120 Intro Interpersonal Com 3 (3-0) FS SS**

**Prerequisites:** None

**Corequisites:** None

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. (2007 FA) *This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A. and A.S.*
- *Communication course for A.A.S. and A.G.E.*

**COM-140 Intro Intercultural Com 3 (3-0) F**

**Prerequisites:** None

**Corequisites:** None

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. (2009 SP) *This course has been approved to satisfy the following requirement(s):*

- *Communications Gen. Ed. course for A.A. and A.S.*
- *Communication course for A.A.S. and A.G.E.*

**COM-150 Intro to Mass Comm 3 (3-0) AND**

**Prerequisites:** ENG-111

**Corequisites:** None

This course introduces print and electronic media and the new information technologies in terms of communication theory and as economic, political, and social institutions. Topics include the nature, history, functions, and responsibilities of mass communication industries in a global environment and their role and impact in American society. Upon completion, students should be able to demonstrate awareness of the pervasive nature of mass media and how media operate in an advanced post-

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industrial society. (2010 SP) This course has been approved to satisfy the following requirement(s):

- *Premajor and/or Elective course for A.A. and A.S.*

**COM-231 Public Speaking 3 (3-0) FS SS**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU) This course has been approved to satisfy the following requirement(s):

- *UGETC course for A.A., A.E., A.F.A. and A.S.*
- *Communication course for A.A.S. and A.G.E.*

### COS Cosmetology

**COS-111 Cosmetology Concepts I 4 (4-0) FS**

**Prerequisites:** DRE-096 or ENG-002

**Corequisites:** 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. (1997 SU)

**COS-112 Salon I 8 (0-24) FS**

**Prerequisites:** DRE-096 or ENG-002

**Corequisites:** 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. (1997 SU)

**COS-113 Cosmetology Concepts II 4 (4-0) FS**

**Prerequisites:** COS-111 (minimum grade C) and COS-112

**Corequisites:** COS-114

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting. (2016 FA)

**COS-114 Salon II 8 (0-24) FS**

**Prerequisites:** COS-111 (minimum grade C) and COS-112

**Corequisites:** COS-113

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics.



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**COS-224**      **Trichology & Chemistry**      **2 (1-3)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course is a study of hair and the interaction of applied chemicals. Emphasis is placed on pH actions and the reactions and effects of chemical ingredients. Upon completion, students should be able to demonstrate an understanding of chemical terminology, pH testing, and chemical reactions on hair. (1998 FA)

**COS-240**      **Contemporary Design**      **2 (1-3)**      **AND**

**Prerequisites:**    **COS-111 and COS-112**

**Corequisites:**    **None**

This course covers methods and techniques for contemporary designs. Emphasis is placed on contemporary designs and other related topics. Upon completion, students should be able to demonstrate and apply techniques associated with contemporary design. (1998 FA)

**COS-250**      **Computerized Salon Ops**      **1 (1-0)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces computer and salon software. Emphasis is placed on various computer and salon software applications. Upon completion, students should be able to utilize computer skills and software applications in the salon setting. (1998 FA)

**COS-260**      **Design Applications**      **2 (1-3)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course provides an overview of the design concepts used in cosmetology. Topics include the application of art principles and elements to artistically design hair, nails, and make-up and other related topics. Upon completion, students should be able to demonstrate knowledge and techniques associated with design concepts. (1998 FA)

## CSC Computer Science

**CSC-134**      **C++ Programming**      **3 (2-3)**      **SS**

**Prerequisites:**    **DMA-010 through 040 or MAT-003**

**Corequisites:**    **None**

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. (2006 SP) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Other Gen. Ed. and Premajor Elective Hours course for A.E.*

**CSC-139 Visual BASIC Programming 3 (2-3) F**

**Prerequisites:** DMA-010 through 040 or MAT-003

**Corequisites:** None

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. (2006 SP) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

**CSC-151 JAVA Programming 3 (2-3) AND**

**Prerequisites:** DMA-010 through 040 or MAT-003

**Corequisites:** None

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 and debug at a beginning level. (2006 SP) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Other Gen. Ed. and Premajor Elective Hours course for A.E.

**CSC-153 C# Programming 3 (2-3) S**

**Prerequisites:** DMA-010 through 040 or MAT-003

**Corequisites:** None

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, debug, and implement objects using the appropriate environment at the beginning level. (2006 SP)

**CSC-174 Server-Side JavaScript 3 (2-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course introduces the use of JavaScript in the server environment to build server-side applications. Topics include asynchronous programming, connecting to other machines, testing, and connecting to different databases. Upon completion, students should be able to create server-side applications using JavaScript applications. (2016 SP)

**CSC-239 Advanced Visual BASIC Prog 3 (2-3) AND**

**Prerequisites:** CSC-139

**Corequisites:** None

This course is a continuation of CSC-139 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, debug, and implement objects using the appropriate

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environment. (2006 SP) This course has been approved to satisfy the following requirement(s):

- *Premajor and/or Elective course for A.A. and A.S.*

**CSC-253            Advanced C# Programming            3 (2-3)            F**

**Prerequisites:**    CSC-153

**Corequisites:**    None

This course is a continuation of CSC-153 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, debug, and implement objects using the appropriate environment. (2006 SP)

**CSC-284            Emerging Comp Prog Tech            3 (2-3)            AND**

**Prerequisites:**    None

**Corequisites:**    None

This course provides students with the latest technologies and strategies in the field of Computer Programming. Emphasis is placed on the evaluation of developing Computer Programming Technologies and presenting those findings to the class. Upon completion, students should be able to critically analyze emerging Computer Programming Technologies and establish informed opinions. (2006 SP)

**CSC-289            Programming Capstone Project            3 (1-4)            S**

**Prerequisites:**    CTI-110, CTI-120, and CTS-115

**Corequisites:**    None

This course provides an opportunity to complete a significant programming project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete a project from the definition phase through implementation. (2016 FA)

### CST Construction

**CST-241            Planning/Estimating I            3 (2-2)            S**

**Prerequisites:**    BPR-130 or MAT-121 or MAT-171

**Corequisites:**    None

This course covers the procedures involved in planning and estimating a construction/building project. Topics include performing quantity take-offs of materials necessary for a building project. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs involved in a construction project. (2014 FA)

### CSV Customer Service Technology

**CSV-110            Intro to Customer Service            3 (3-0)            AND**

**Prerequisites:**    None

**Corequisites:**    None

This course introduces the fundamentals of customer service technology. Topics include retail sales, order entry, credit, collection, authorization services, and fraud

control. Upon completion, students should be able to exhibit an extensive vocabulary of customer service terminology and be prepared for advanced study in customer service technology. (1997 SU)

### CTI Computer Tech Integration

**CTI-110**      **Web, Pgm, & Db Foundation**      **3 (2-2)**      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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 web-site with mark-up tools, and create a simple database table. (2009 FA)

**CTI-120**      **Network & Sec Foundation**      **3 (2-2)**      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (2009 FA)

**CTI-140**      **Virtualization Concepts**      **3 (1-4)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (2012 SU)

**CTI-240**      **Virtualization Admin I**      **3 (1-4)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course covers datacenter virtualization concepts. Topics include data storage, virtual network configuration, virtual machine and virtual application deployment. Upon completion, students should be able to perform tasks related to virtual machine and hypervisor installation and configuration. (2012 SU)

**CTI-241**      **Virtualization Admin II**      **3 (1-4)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course covers administration of datacenter virtualization infrastructure. Topics include access control, fault tolerance, scalability, resource management, virtual machine migration and troubleshooting. Upon completion, students should be able to perform tasks related to virtualization security, data protection and resource monitoring. (2012 SU)

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### CTS Computer Information Technology

**CTS-115 Info Sys Business Concepts 3 (3-0) F**

**Prerequisites:** None

**Corequisites:** None

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. (2006 SP) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

**CTS-285 Systems Analysis & Design 3 (3-0) F**

**Prerequisites:** None

**Corequisites:** None

This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques. (2016 FA)

### CUL Culinary

**CUL-110 Sanitation & Safety 2 (2-0) FS SS**

**Prerequisites:** None

**Corequisites:** None

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. (2011 FA)

**CUL-110A Sanitation & Safety Lab 1 (0-2) FS SS**

**Prerequisites:** None

**Corequisites:** 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. (2011 FA)

**CUL-112 Nutrition for Foodservice 3 (3-0) S**

**Prerequisites:** None

**Corequisites:** None

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. (2011 FA)

**CUL-120 Purchasing 2 (2-0) FS**  
**Prerequisites: DMA-010 through 030 or MAT-003**  
**Corequisites: None**

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. (2011 FA)

**CUL-130 Menu Design 2 (2-0) SS**  
**Prerequisites: None**  
**Corequisites: None**

This course introduces menu design and its relationship to foodservice operations. Topics include layout, marketing, concept development, dietary concerns, product utilization, target consumers and trends. Upon completion, students should be able to design, create and produce menus for a variety of foodservice settings. (2011 FA)

**CUL-135 Food & Beverage Service 2 (2-0) FS**  
**Prerequisites: None**  
**Corequisites: CUL-135A**

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. (2011 FA)

**CUL-135A Food & Beverage Serv Lab 1 (0-2) FS**  
**Prerequisites: None**  
**Corequisites: 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. (2011 FA)

**CUL-140 Culinary Skills I 5 (2-6) FS**  
**Prerequisites: DMA-010 through 030 or MAT-003**  
**Corequisites: 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. (2011 FA)

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<b>CUL-160</b>	<b>Baking I</b>	<b>3 (1-4)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>DMA-010 through 030 or MAT-003</b>		
<b>Corequisites:</b>	<b>CUL-110</b>		
<p>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. (2011 FA)</p>			
<b>CUL-170</b>	<b>Garde Manger I</b>	<b>3 (1-4)</b>	<b>FS SS</b>
<b>Prerequisites:</b>	<b>DMA-010 through 030 or MAT-003</b>		
<b>Corequisites:</b>	<b>CUL-110</b>		
<p>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. (2011 FA)</p>			
<b>CUL-214</b>	<b>Wine Appreciation</b>	<b>2 (1-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>DRE-097 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides an introduction to information about wine from all the major wine producing regions. Emphasis is placed on the history of wine, production, characteristics, wine list development, laws, purchasing and storing requirements. Upon completion, students should be able to evaluate varietal wines and basic food pairings. (2011 FA)</p>			
<b>CUL-230</b>	<b>Global Cuisines</b>	<b>5 (1-8)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>CUL-110, CUL-110A, CUL-140, CUL-160, CUL-240</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2011 FA)</p>			
<b>CUL-240</b>	<b>Culinary Skills II</b>	<b>5 (1-8)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>CUL-110, CUL-110A, CUL-140, DRE-097 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2017 FA)</p>			

**CUL-245**                      **Contemporary Cuisines**    **5 (1-8)**                      **S**  
**Prerequisites:**      **CUL-110, CUL-110A, CUL-140, CUL-230, CUL-240**  
**Corequisites:**      **None**

This course introduces students to current culinary trends which include a variety of preparation methods. Topics include current and developing trends such as adaptation of native/regional ingredients and preparation methods into contemporary cuisines. Upon completion, students should be able to demonstrate knowledge of a variety of contemporary cuisines. (2011 FA)

**CUL-260**                      **Baking II**    **3 (1-4)**                      **F**  
**Prerequisites:**      **CUL-110, CUL-110A, CUL-160, DRE-097 or ENG-002**  
**Corequisites:**      **None**

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. (2011 FA)

### **DBA Database Management Technology**

**DBA-110**                      **Database Concepts**    **3 (2-3)**                      **S**  
**Prerequisites:**      **None**  
**Corequisites:**      **None**

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. (2006 SP)

**DBA-120**                      **Database Programming I**    **3 (2-2)**                      **AND**  
**Prerequisites:**      **None**  
**Corequisites:**      **None**

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. (2006 SP)

**DBA-221**                      **SQL Server DB Prog II**    **3 (2-2)**                      **AND**  
**Prerequisites:**      **DBA-120**  
**Corequisites:**      **None**

This course is designed to enhance programming skills developed in DBA-120. Topics include application development with GUI front-ends and embedded programming. Upon completion, students should be able to develop a SQL Server DBMS application which includes a GUI front-end and report generation. (2006 SP)

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 CURRICULUM COURSE DESCRIPTIONS
 

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## DFT Drafting

**DFT-170          Engineering Graphics                                  3 (2-2)          AND**

**Prerequisites:**    None

**Corequisites:**    None

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. (2005 SP) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Other Gen. Ed. and Premajor Elective Hours course for A.E.*

## DME Digital Media Technology

**DME-110          Intro to Digital Media                                  3 (2-2)          F**

**Prerequisites:**    None

**Corequisites:**    None

This course introduces students to key concepts, technologies, and issues related to digital media. Topics include emerging standards, key technologies and related design issues, terminology, media formats, career paths, and ethical issues. Upon completion, students should be able to demonstrate the various media formats that are used in digital media technology. (2004 FA)

**DME-115          Graphic Design Tools                                  3 (2-2)          SS**

**Prerequisites:**    None

**Corequisites:**    None

This course provides students with an introduction to creative expression and art/design techniques in a digital environment. Emphasis is placed on designing, creating, editing and integrating visual components consisting of bit-mapped and vector-based images, drawings, banners, text, simple animations, and multiple layers. Upon completion, students should be able to design and produce a range of visual products using digital processing techniques. (2004 FA)

**DME-120          Intro to Multimedia Appl                                  3 (2-2)          S**

**Prerequisites:**    None

**Corequisites:**    None

This course introduces storyboarding and multimedia application design. Topics include vector and bit-mapped graphics, interactive multimedia interfaces, layering techniques, image and animation libraries, and scripting. Upon completion, students should be able to produce basic high-quality interactive multimedia applications. (2019 FA)

**DME-130          Digital Animation I                                  3 (2-2)          F**

**Prerequisites:**    DME-110

**Corequisites:**    None

This course introduces concepts for planning and developing animation sequences. Emphasis will be placed on review of digital animation concepts and exploration of various animation software packages. Upon completion, students should be able to produce simple animations. (2004 FA)

**DME-140 Intro to Audio/Video Media 3 (2-2) SS**

**Prerequisites:** None

**Corequisites:** None

This course is designed to teach students how to manipulate digital and audio content for multimedia applications. Topics include format conversion and a review of current technologies and digital formats. Upon completion, students should be able to modify existing audio and video content to meet a range of production requirements associated with digital media applications. (2019 FA)

**DME-210 User Interface Design 3 (2-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course covers current design approaches and emerging standards related to the design and development of user interfaces. Emphasis is placed on conducting research, and analyzing and reviewing current practices in effective interface design. Upon completion, students should be able to intelligently discuss and evaluate new and existing digital media products in terms of the user interface. (2019 FA)

**DME-215 Adv Graphic Design Tools 3 (2-2) AND**

**Prerequisites:** DME-115

**Corequisites:** None

This course provides students with advanced design techniques in a digital environment. Emphasis is placed on understanding principles of design and topography and applying them effectively in projects. Upon completion, students should be able to design and produce a range of visual products using advanced digital design techniques and principles. (2011 SU)

**DME-220 Interactive Multimedia Prog 3 (2-2) AND**

**Prerequisites:** DME-120

**Corequisites:** None

This course is designed to build on concepts developed in DME-120 and teaches students to apply custom programming to develop advanced applications and components. Emphasis is placed on scripting language functionalities associated with a variety of software packages. Upon completion, students should be able to produce advanced, high-quality interactive multimedia applications. (2004 FA)

**DME-285 Systems Projects 3 (2-2) S**

**Prerequisites:** DME-115, DME-120, DME-130, GRA-152, WEB-210

**Corequisites:** None

This course provides an opportunity to complete a significant digital media project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete, maintain and implement a digital media project. (2004 FA)

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 CURRICULUM COURSE DESCRIPTIONS
 

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## DRA Drama/Theatre

**DRA-111 Theatre Appreciation 3 (3-0) AND**

**Prerequisites: None**

**Corequisites: None**

This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**DRA-126 Storytelling 3 (3-0) AND**

**Prerequisites: None**

**Corequisites: None**

This course introduces the art of storytelling and the oral traditions of folk literature. Topics include the history of storytelling, its value and purpose, techniques of the storyteller, and methods of collecting verbal art. Upon completion, students should be able to present and discuss critically stories from the world's repertory of traditional lore. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**DRA-130 Acting I 3 (0-6) AND**

**Prerequisites: None**

**Corequisites: None**

This course provides an applied study of the actor's craft. Topics include role analysis, training the voice, and body concentration, discipline, and self-evaluation. Upon completion, students should be able to explore their creativity in an acting ensemble. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

**DRA-131 Acting II 3 (0-6) AND**

**Prerequisites: DRA-130**

**Corequisites: None**

This course provides additional hands-on practice in the actor's craft. Emphasis is placed on further analysis, characterization, growth, and training for acting competence. Upon completion, students should be able to explore their creativity in an acting ensemble. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

## ECM Electronic Commerce

**ECM-210 Intro. to E-Commerce 3 (2-2) S**

**Prerequisites: DRE-097 or ENG-002; CIS-110 or CIS-111**

**Corequisites: None**

This course introduces the concepts and tools to implement electronic commerce via the Internet. Topics include application and server software selection, securing

transactions, use and verification of credit cards, publishing of catalogs, and site administration. Upon completion, students should be able to setup a working e-commerce Internet web site. (2003 FA)

### ECO Economics

**ECO-151                      Survey of Economics    3 (3-0)                      F**  
**Prerequisites:**    **DRE-098 or ENG-002, DMA-010 through 050 or MAT-003**  
**Corequisites:**    **None**

This course, for those who have not received credit for ECO-251 or 252, 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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Social/Behavioral Science Gen. Ed. course for A.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**ECO-251                      Prin of Microeconomics    3 (3-0)                      FS SS**  
**Prerequisites:**    **DRE-098 or ENG-002; DMA-010 through 050 or MAT-003**  
**Corequisites:**    **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**ECO-252                      Prin of Macroeconomics    3 (3-0)                      FS**  
**Prerequisites:**    **DRE-098 or ENG-002; DMA-010 through 050 or MAT-003**  
**Corequisites:**    **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A. and A.S.
- Other Gen. Ed. and Premajor Elective course for A.E.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

## EDU Education

<b>EDU-119</b>	<b>Intro to Early Child Educ</b>	<b>4 (4-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>DRE-096 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the foundations of early childhood education, the diverse educational settings for young children, professionalism and planning intentional 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. (2015 FA)</p>			
<b>EDU-131</b>	<b>Child, Family, &amp; Community</b>	<b>3 (3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>DRE-098 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2017 SP)</p>			
<b>EDU-144</b>	<b>Child Development I</b>	<b>3 (3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>EDU-119; DRE-097, ENG-002, or ENG-111</b>		
<p>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. (2017 SP)</p> <ul style="list-style-type: none"> <li>• <i>Premajor and/or Elective course for A.A. and A.S.</i></li> </ul>			
<b>EDU-145</b>	<b>Child Development II</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>EDU-119; DRE-097, ENG-002, or ENG-111</b>		
<p>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,</p>			







- EDU-234**      **Infants, Toddlers, & Twos**      **3 (3-0)**      **S**  
**Prerequisites:**    **EDU-119**  
**Corequisites:**    **DRE-098, ENG-002, or ENG-111**  
 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, working with diverse families to provide positive, supportive, and engaging early learning activities and interactions through field experiences and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate responsive curriculum 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. *(2018 FA)*
- EDU-235**      **School-Age Develop and Programs**      **3 (3-0)**      **F**  
**Prerequisites:**    **DRE-098 or ENG-002**  
**Corequisites:**    **None**  
 This course includes developmentally appropriate practices in group settings for school-age children. Emphasis is placed on principles of development, environmental planning, and positive guidance techniques and program development. Upon completion, students should be able to discuss developmental principles for culturally, linguistically, and ability diverse children ages five to twelve and plan and implement developmentally appropriate programs and activities. *(2017 SP)*
- EDU-250**      **Teacher Licensure Preparation**      **3 (3-0)**      **S**  
**Prerequisites:**    **ENG-111; MAT-143, MAT-152, or MAT-171**  
**Corequisites:**    **None**  
 This course provides information and strategies necessary for transfer to a teacher licensure program at a senior institution. Topics include entry level teacher licensure exam preparation, performance based assessment systems, requirements for entry into teacher education programs, the process to become a licensed teacher in North Carolina, and professionalism including expectations within the field of education. Upon completion, students should be able to utilize educational terminology and demonstrate knowledge of teacher licensure processes including exam preparation, technology based portfolio assessment, and secondary admissions processes to the school of education at a senior institution. *(2018 FA)*
- EDU-251**      **Exploration Activities**      **3 (3-0)**      **S**  
**Prerequisites:**    **DRE-098 or ENG-002**  
**Corequisites:**    **None**  
 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. *(2017 SP)*

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<b>EDU-259</b>	<b>Curriculum Planning</b>	<b>3 (3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>EDU-119</b>		
<b>Corequisites:</b>	<b>DRE-098, ENG-002, or ENG-111</b>		
<p>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. (2017 SP)</p>			
<b>EDU-261</b>	<b>Early Childhood Admin I</b>	<b>3 (3-0)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>EDU-119; DRE-098, ENG-002, or ENG-111</b>		
<p>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. (2017 SP)</p>			
<b>EDU-262</b>	<b>Early Childhood Admin II</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>EDU-119, EDU-261; DRE-098, ENG-002, or ENG-111</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2017 SP)</p>			
<b>EDU-271</b>	<b>Educational Technology</b>	<b>3 (2-2)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>DRE-098 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2017 SP)</p>			
<b>EDU-275</b>	<b>Effective Teach Train</b>	<b>2 (2-0)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>DRE-098 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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</p>			

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. (2013 FA)

**EDU-280 Language/Literacy Experiences 3 (3-0) F**

**Prerequisites:** DRE-098 or ENG-002

**Corequisites:** None

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. (2017 SP)

**EDU-284 Early Child Capstone Prac 4 (1-9) S**

**Prerequisites:** EDU-119, EDU-144, EDU-145, EDU-146, EDU-151

**Corequisites:** DRE-098, ENG-002, or ENG-111

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. (2017 SP)

## EGR Engineering

**EGR-110 Intro to Engineering Tech 2 (1-2) FS**

**Prerequisites:** None

**Corequisites:** None

This course introduces general topics relevant to engineering technology. Topics include career assessment, professional ethics, critical thinking and problem solving, usage of college resources for study and research, and using tools for engineering computations. Upon completion, students should be able to choose a career option in engineering technology and utilize college resources to meet their educational goals. (2005 SP)

**EGR-115 Intro to Technology 3 (2-3) F**

**Prerequisites:** None

**Corequisites:** EGR-115A

This course introduces the basic skills and career fields for technicians. Topics include career options, technical vocabulary, dimensional analysis, measurement systems, engineering graphics, calculator applications, professional ethics, safety practices, and other related topics. Upon completion, students should be able to demonstrate an





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**ELC-128**      **Intro to PLC**      **3 (2-3)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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 understand basic PLC systems and create simple programs. *(2013 FA)*

**ELC-131**      **Circuit Analysis I**      **4 (3-3)**      **F**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. *(2013 FA)*

**ELC-215**      **Electrical Maintenance**      **3 (2-3)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces the theory of maintenance and the skills necessary to maintain electrical equipment found in industrial and commercial facilities. Topics include maintenance theory, predictive and preventive maintenance, electrical equipment operation and maintenance, and maintenance documentation. Upon completion, students should be able to perform maintenance on electrical equipment in industrial and commercial facilities. *(2007 FA)*

**ELC-229**      **Applications Project**      **2 (1-3)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course provides an individual and/or integrated team approach to a practical project as approved by the instructor. Topics include project selection and planning, implementation and testing, and a final presentation. Upon completion, students should be able to plan and implement an applications-oriented project. *(2007 FA)*

### **ELN Electronics**

**ELN-131**      **Analog Electronics I**      **4 (3-3)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. *(2013 FA)*





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<b>EMS-121</b>	<b>AEMT Clinical Practicum</b>	<b>2 (0-0-6)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>EMS-110</b>		
<b>Corequisites:</b>	<b>EMS-120</b>		
<p>This course provides the hospital and field internship/clinical experiences required in preparation for the Advanced EMT certification. Emphasis is placed on performing patient assessments, treatments, and interactions appropriate at the Advanced EMT level of care. Upon completion, students should be able to demonstrate competency at the Advanced EMT skill level. (2019 SP)</p>			
<b>EMS-122</b>	<b>EMS Clinical Practicum I</b>	<b>1 (0-0-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>EMS-110</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides the introductory hospital clinical experience for the paramedic student. Emphasis is placed on mastering fundamental paramedic skills. Upon completion, students should be able to demonstrate competency with fundamental paramedic level skills. (2019 SP)</p>			
<b>EMS-125</b>	<b>EMS Instructor Methodology</b>	<b>3 (2-2-0)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers the information needed to develop and instruct EMS courses. Topics include instructional methods, lesson plan development, time management skills, and theories of adult learning. Upon completion, students should be able to teach EMS courses and meet the North Carolina EMS requirements for instructor methodology. (2019 SP)</p>			
<b>EMS-130</b>	<b>Pharmacology</b>	<b>4 (3-3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>EMS-110</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2019 SP)</p>			
<b>EMS-131</b>	<b>Advanced Airway Management</b>	<b>2 (1-2-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>EMS-110</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics must meet current guidelines for advanced airway management in the pre-hospital setting. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance. (2019 SP)</p>			
<b>EMS-140</b>	<b>Rescue Scene Management</b>	<b>2 (1-3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces rescue scene management. Topics include response to hazardous material conditions, incident command, and extrication of patients from a</p>			

variety of situations. Upon completion, students should be able to recognize and manage rescue operations based upon initial and follow-up scene assessment. (2014 SP)

**EMS-150            Emergency Vehicles & EMS Comm            2 (1-3-0)            AND**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course covers the principles governing emergency vehicles, maintenance of emergency vehicles, and EMS communication equipment. Topics include applicable motor vehicle laws affecting emergency vehicle operation, defensive driving, collision avoidance techniques, communication systems, and information management systems. Upon completion, students should have a basic knowledge of emergency vehicles, maintenance, and communication needs. (2014 SP)

**EMS-160            Cardiology I            3 (2-3-0)            S**  
**Prerequisites:**    **EMS-110**  
**Corequisites:**    **None**

This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and rhythm interpretation. Upon completion, students should be able to recognize and interpret rhythms. (2019 SP)

**EMS-210            Adv. Patient Assessment            2 (1-3-0)            S**  
**Prerequisites:**    **EMS-110**  
**Corequisites:**    **None**

This course covers advanced patient assessment techniques and is required for paramedic certification. Topics include initial assessment, medical-trauma history, field impression, complete physical exam process, on-going assessment, and documentation skills. Upon completion, students should be able to utilize basic communication skills and record and report collected patient data. (2019 SP)

**EMS-220            Cardiology II            3 (2-3-0)            SS**  
**Prerequisites:**    **EMS-122, EMS-130, and EMS-160**  
**Corequisites:**    **None**

This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include assessment and treatment of cardiac emergencies, cardiac pharmacology, and patient care. Upon completion, students should be able to manage the cardiac patient. (2019 SP)

**EMS-221            EMS Clinical Practicum II            2 (0-0-6)            SS**  
**Prerequisites:**    **EMS-121 or EMS-122**  
**Corequisites:**    **None**

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. (2019 SP)

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**EMS-231 EMS Clinical Pract III 3 (0-0-9) F**  
**Prerequisites: EMS-130 and EMS-221**  
**Corequisites: None**

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. (2014 SP)

**EMS-235 EMS Management 2 (2-0-0) AND**  
**Prerequisites: None**  
**Corequisites: None**

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. (1997 SU)

**EMS-240 Patients W/ Special Challenges 2 (1-2-0) F**  
**Prerequisites: EMS-122 and EMS-130**  
**Corequisites: None**

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. (2014 SP)

**EMS-241 EMS Clinical Practicum IV 4 (0-0-12) S**  
**Prerequisites: EMS-130 and EMS-231**  
**Corequisites: None**

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 (2014 SP)

**EMS-243 Wilderness EMT 2 (1-2-0) AND**  
**Prerequisites: EMS-110**  
**Corequisites: None**

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. (2012 SP)

**EMS-250            Advanced Medical Emergencies            4 (3-3-0)            F**

**Prerequisites:**    **EMS-122 and EMS-130**

**Corequisites:**    **None**

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. (2014 SP)

**EMS-260            Trauma Emergencies            2 (1-3-0)            SS**

**Prerequisites:**    **EMS-122 and EMS-130**

**Corequisites:**    **None**

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. (2014 SP)

**EMS-270            Life Span Emergencies            3 (2-3-0)            F**

**Prerequisites:**    **EMS-122 and EMS-130**

**Corequisites:**    **None**

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. (2014 SP)

**EMS-280            EMS Bridging Course            3 (2-2-0)            AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course is designed to provide currently credentialed state or national Paramedic students with the most current education trends in Paramedic Practice. Emphasis is placed on transitions in healthcare. Upon completion, students should be able to integrate emerging trends in pre-hospital care. (2019 SP)

**EMS-285            EMS Capstone            2 (1-3-0)            S**

**Prerequisites:**    **EMS-220, EMS-250, EMS-260**

**Corequisites:**    **None**

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. (1997 SU)



**ENG-114 Prof Research & Reporting 3 (3-0) FS SS****Prerequisites:** ENG-111**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Additional Gen. Ed. course for A.A. and A.S.*
- *English Composition Gen. Ed. course for A.A.S. and A.G.E.*

**ENG-125 Creative Writing I 3 (3-0) F****Prerequisites:** ENG-111**Corequisites:** None

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. (2001 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**ENG-126 Creative Writing II 3 (3-0) AND****Prerequisites:** ENG-125**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**ENG-131 Introduction to Literature 3 (3-0) AND****Prerequisites:** ENG-111**Corequisites:** ENG-112 or ENG-114

This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**ENG-231 American Literature I 3 (3-0) FS SS****Prerequisites:** ENG-112 or ENG-114**Corequisites:** None

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 analyze and interpret literary works in their historical and cultural contexts. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

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- *UGETC course for A.A., A.E., A.F.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**ENG-232 American Literature II 3 (3-0) FS SS**

**Prerequisites:** ENG-112 or ENG-114

**Corequisites:** None

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 analyze and interpret literary works in their historical and cultural contexts. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A., A.E., A.F.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**ENG-241 British Literature I 3 (3-0) F**

**Prerequisites:** ENG-112 or ENG-114

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A., A.E., A.F.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**ENG-242 British Literature II 3 (3-0) S**

**Prerequisites:** ENG-112 or ENG-114

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A., A.E., A.F.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**ENG-261 World Literature I 3 (3-0) AND**

**Prerequisites:** ENG-112 or ENG-114

**Corequisites:** None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*



**ENG-262 World Literature II 3 (3-0) AND**  
**Prerequisites: ENG-112 or ENG-114**

**Corequisites: None**

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**ENG-273 African-American Literature 3 (3-0) AND**  
**Prerequisites: ENG-112 or ENG-114**

**Corequisites: None**

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

### EPT Emergency Preparedness

**EPT-140 Emergency Management 3 (3-0) F**

**Prerequisites: None**

**Corequisites: None**

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. (2014 FA)

### FIP Fire Protection

**FIP-120 Intro to Fire Protection 3 (3-0) F**

**Prerequisites: None**

**Corequisites: None**

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. (2014 FA)

**FIP-124 Fire Prevention & Public Ed 3 (3-0) F**

**Prerequisites: None**

**Corequisites: None**

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





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**FIP-276**            **Managing Fire Services**                                **3 (3-0)**            **S**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**  
 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. (2014 FA)

### **FRE French**

**FRE-111**            **Elementary French I**                                **3 (3-0)**            **AND**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**  
 This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.

**FRE-112**            **Elementary French II**                                **3 (3-0)**            **AND**  
**Prerequisites:**    **FRE-111**  
**Corequisites:**    **None**  
 This course is a continuation of FRE-111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.

**FRE-211**            **Intermediate French I**                                **3 (3-0)**            **AND**  
**Prerequisites:**    **FRE-112**  
**Corequisites:**    **None**  
 This course provides a review and expansion of the essential skills of the French language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**FRE-212**            **Intermediate French II**                                **3 (3-0)**            **AND**  
**Prerequisites:**    **FRE-211**  
**Corequisites:**    **None**  
 This course is a continuation of FRE-211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing

complexity and sophistication. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

### GCM Golf Course Management

**GCM-110**      **Golf Course Shop Mgmt**      **3 (3-0)**      **S**  
**Prerequisites:**    **LSG-111; MAT-110, MAT-121, MAT-143, MAT-152, or MAT-171**

**Corequisites:**    **None**

This course provides the basic elements of golf course equipment shop management. Topics include shop safety and OSHA regulations, shop tools and equipment, overall shop maintenance, and development of equipment inventory and buyer's guide files. Upon completion, students should be able to demonstrate an understanding of management techniques as applied to equipment shops. (1997 FA)

**GCM-220**      **Golf Course Maint Systems**      **3 (3-0)**      **S**  
**Prerequisites:**    **ENG-111; MAT-110, MAT-121, MAT-143, MAT-152, or MAT-171**

**Corequisites:**    **WBL-111, TRF-110**

This course provides a detailed study of the logistics of day-to-day maintenance programs for golf courses. Emphasis is placed on how such programs relate to the overall management of golf course facilities. Upon completion, students should be capable of setting up and operating maintenance programs at golf courses. *This course is a unique concentration requirement in the Golf Course Management concentration in the Turfgrass Management Technology program.* (1997 FA)

**GCM-230**      **Golf Course Org and Admin**      **3 (3-0)**      **F**  
**Prerequisites:**    **WBL-121, GCM-220**  
**Corequisites:**    **WBL-131, TRF-230**

This course provides a detailed analysis of golf course and landscape operations and administration. Topics include personnel, planning, budgeting, purchasing, records, labor management, and other day-to-day administrative functions. Upon completion, students should be able to understand the complicated roles and functions of golf course operations. *This course is a unique concentration requirement in the Golf Course Management concentration in the Turfgrass Management Technology program.* (1997 FA)

**GCM-240**      **Golf Course Design**      **3 (3-0)**      **F**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course provides a detailed study of the application of design principles to golf courses. Emphasis is placed on specific areas associated with golf courses and surrounding structures. Upon completion, students should be able to recognize the application of design principles as applied to golf courses. *This course is a unique concentration requirement in the Golf Course Management concentration in the Turfgrass Management Technology program.* (1997 FA)

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**GCM-244**      **Advanced Issues/GCM**      **2 (2-0)**      **S**  
**Prerequisites:**    **WBL-131**  
**Corequisites:**    **None**

This course covers advanced topics and field applications in golf course management. Emphasis is placed on management issues and professional growth experiences of current interest to golf course operations professionals. Upon completion, students should be able to demonstrate an understanding of advanced topics and critically analyze issues in golf course management. (2008 SP)

### GEL Geology

**GEL-111**      **Geology**      **4 (3-2)**      **AND**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A., A.F.A., and A.S.*
- *Natural Science Gen. Ed. course for A.S.*
- *Natural Science Gen. Ed. course for A.A.S. and A.G.E.*

### GEO Geography

**GEO-111**      **World Regional Geography**      **3 (3-0)**      **AND**  
**Prerequisites:**    **DRE-097 or ENG-002**  
**Corequisites:**    **None**

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

### GRA Graphic Arts

**GRA-151**      **Computer Graphics I**      **2 (1-3)**      **S**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course introduces the use of hardware and software for production and design in graphic arts. Topics include graphical user interface and current industry uses such as design, layout, typography, illustration, and imaging for production. Upon completion, students should be able to understand and use the computer as a fundamental design and production tool. (1997 SU)

<b>GRA-152</b>	<b>Computer Graphics II</b>	<b>2 (1-3)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>GRA-151</b>		
<b>Corequisites:</b>	<b>None</b>		

This course covers advanced design and layout concepts utilizing illustration, page layout, and imaging software in graphic arts. Emphasis is placed on enhancing and developing the skills that were introduced in GRA-151. Upon completion, students should be able to select and utilize appropriate software for design and layout solutions. (1997 SU)

### **GRD Graphic Design**

<b>GRD-121</b>	<b>Drawing Fundamentals I</b>	<b>2 (1-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

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. (1997 SU)

<b>GRD-151</b>	<b>Computer Design Basics</b>	<b>3 (1-4)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

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 topography to provide effective solutions to advertising and graphic design problems. Upon completion, students should be able to use the computer as a creative tool. (1997 SU)

<b>GRD-167</b>	<b>Photographic Imaging I</b>	<b>3 (1-4)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

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. (2006 SU)

<b>GRD-265</b>	<b>Digital Print Production</b>	<b>3 (1-4)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>GRA-151 or GRD-151; GRA-152</b>		
<b>Corequisites:</b>	<b>None</b>		

This course covers preparation of digital files for output and reproduction. Emphasis is placed on output options, separations, color proofing, and cost and design considerations. Upon completion, students should be able to prepare files and select appropriate output methods for design solutions. (2009 SP)

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## GRO Gerontology

<b>GRO 120</b>	<b>Gerontology</b>	<b>3 (3-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

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. (2011 FA)

## HEA Health

<b>HEA-112</b>	<b>First Aid &amp; CPR</b>	<b>2 (1-2)</b>	<b>FS SS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

## HFS Health and Fitness Science

<b>HFS-110</b>	<b>Exercise Science</b>	<b>4 (4-0)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>DRE-097 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		

This course is a survey of scientific principles, methodologies, and research as applied to exercise and physical adaptations to exercise. Topics include the basic elements of kinesiology, biomechanics, and motor learning. Upon completion, students should be able to identify and describe physiological responses and adaptations to exercise. (2017 FA)

<b>HFS-111</b>	<b>Fitness &amp; Exer Testing I</b>	<b>4 (3-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>DRE-097 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		

This course introduces the student to graded exercise testing. Topics include various exercise testing protocols with methods for prescribing exercise programs based on exercise tolerance tests and the use of various equipment and protocols. Upon completion, students should be able to conduct specific exercise tests and the use of various equipment. (2017 FA)

<b>HFS-116</b>	<b>Pvnt &amp; Care Exer Injuries</b>	<b>3 (2-2)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>DRE-097 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		

This course provides information about the care and prevention of exercise injuries. Topics include proper procedures, prevention techniques, and on-site care of injuries. Upon completion, students should be able to demonstrate the knowledge and skills necessary to prevent and care for exercise related injuries. (2017 FA)



<b>HFS-118</b>	<b>Fitness Facility Mgmt</b>	<b>4 (4-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides information about the management and operation of health and fitness facilities and programs. Topics include human resources, sales and marketing, member retention, financial management, facility design and maintenance, and risk management. Upon completion, students should be able to demonstrate the knowledge and skills necessary to effectively manage a fitness facility. (2017 FA)</p>			
<b>HFS-120</b>	<b>Group Exer Instruction</b>	<b>3 (2-2)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>HFS-110</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the concepts and guidelines of instructing exercise classes. Topics include program designs, working with special populations, and principles of teaching and monitoring physical activity. Upon completion, students should be able to demonstrate basic skills in instructing an exercise class and monitoring workout intensity. (2017 FA)</p>			
<b>HFS-210</b>	<b>Personal Training</b>	<b>3 (2-2)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>HFS-110, HFS-111</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the student to the aspects of personal (one-on-one) training. Topics include training systems, marketing, and program development. Upon completion, students should be able to demonstrate personal training techniques and competencies of same. (2017 FA)</p>			
<b>HFS-212</b>	<b>Exercise Programming</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>HFS-110</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides information about organizing, scheduling, and implementation of physical fitness programs. Topics include programming for various age groups, competitive activities and special events, and evaluating programs. Upon completion, students should be able to organize and implement exercise activities in a competent manner. (2017 FA)</p>			
<b>HFS-214</b>	<b>Health and Fitness Law</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course is designed to build a greater awareness and understanding of laws and legal issues encountered in the health and fitness industry. Topics include federal/state regulations, historical/current practices, risk management, torts, employment, discrimination, contracts, waivers, health/fitness screening, client confidentiality, facility safety, equipment liability, and emergency procedures. Upon completion, students should be able to demonstrate an understanding of the legal system to prevent or minimize liability in a fitness setting. (2017 FA)</p>			
<b>HFS-218</b>	<b>Lifestyle Chng &amp; Wellness</b>	<b>4 (3-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>DRE-097 or ENG-002</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces health risk appraisals and their application to lifestyle changes. Topics include nutrition, weight control, stress management, and the principles of</p>			

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exercise. Upon completion, students should be able to conduct health risk appraisals and apply behavior modification techniques in a fitness setting. (2017 FA)

## HIS History

**HIS-111                      World Civilizations I    3 (3-0)                      AND**  
**Prerequisites:      DRE-097 or ENG-002**  
**Corequisites:      None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**HIS-112                      World Civilizations II    3 (3-0)                      AND**  
**Prerequisites:      DRE-097 or ENG-002**  
**Corequisites:      None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**HIS-121                      Western Civilization I    3 (3-0)                      AND**  
**Prerequisites:      DRE-096 or ENG-002**  
**Corequisites:      None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Social/Behavioral Science Gen. Ed. course for A.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**HIS-122                      Western Civilization II    3 (3-0)                      AND**  
**Prerequisite:      DRE-096 or ENG-002**  
**Corequisites:      None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Social/Behavioral Science Gen. Ed. course for A.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**HIS-131 American History I 3 (3-0) AND****Prerequisites:** DRE-097 or ENG-002**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**HIS-132 American History II 3 (3-0) AND****Prerequisites:** DRE-097 or ENG-002**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**HIS-151 Hispanic Civilization 3 (3-0) AND****Prerequisite:** DRE-097 or ENG-002**Corequisites:** None

This course surveys the cultural history of Spain and its impact on the New World. Topics include Spanish and Latin American culture, literature, religion, and the arts. Upon completion, students should be able to analyze the cultural history of Spain and Latin America. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

**HIS-221 African-American History 3 (3-0) AND****Prerequisite:** DRE-097 or ENG-002**Corequisites:** None

This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African Americans. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the history of African Americans. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

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**HIS-236 North Carolina History 3 (3-0) AND**

**Prerequisites: DRE-097 or ENG-002**

**Corequisites: None**

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

### HOR Horticulture

**HOR-112 Landscape Design I 3 (2-3) F**

**Prerequisites: HOR-114 and HOR-161; MAT-110, MAT-121, MAT-143, MAT-152, or MAT-171**

**Corequisites: None**

This course covers landscape principles and practices for residential and commercial sites. Emphasis is placed on drafting, site analysis, and common elements of good design, plant material selection, and proper plant utilization (encouraged use of native plants and discouraged use of invasive species). Upon completion, students should be able to read, plan, and draft a landscape design according to sustainable practices. *(2013 FA)*

**HOR-114 Landscape Construction 3 (2-2) SS**

**Prerequisites: MAT-110, MAT-121, MAT-143, MAT-152 or MAT-171**

**Corequisites: None**

This course introduces the design and fabrication of landscape structures/features. Emphasis is placed on safety, tool identification and use, material selection, construction techniques, and fabrication. Upon completion, students should be able to design and construct common landscape structures/features. *(1997 SU)*

**HOR-134 Greenhouse Operations 3 (2-2) S**

**Prerequisites: None**

**Corequisites: None**

This course covers the principles and procedures involved in the operation and maintenance of greenhouse facilities. Emphasis is placed on the operation of greenhouse systems, including the environmental control, record keeping, scheduling, and production practices. Upon completion, students should be able to demonstrate the ability to operate greenhouse systems and facilities to produce greenhouse crops. *(1997 SU)*

**HOR-142 Fruit & Vegetable Prod 2 (1-2) S**

**Prerequisites: None**

**Corequisites: None**

This course introduces the principles and techniques of growing fruits and field-grown vegetables. Topics include site selection, proper varietal selection, nutritional values, cultural techniques, harvesting and marketing, and insect and disease control. Upon

completion, students should be able to demonstrate an understanding of the principles related to the production of selected fruits and vegetables. (1997 SU)

**HOR-160**      **Plant Materials I**      **3 (2-2)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course covers identification, culture, characteristics, and use of plants in a sustainable landscape. Emphasis is placed on nomenclature, identification, growth requirements, cultural requirements, soil preferences, and landscape applications. Upon completion, students should be able to demonstrate knowledge of the proper selection and utilization of plant materials, including natives and invasive plants. (2013 FA)

**HOR-161**      **Plant Materials II**      **3 (2-2)**      **SS**

**Prerequisites:**    **HOR-160**

**Corequisites:**    **None**

This course provides a supplementary opportunity to cover identification, culture, characteristics, and use of plants in a sustainable landscape, giving students a broader knowledge of available landscape plants for utilization in landscapes and plant production. Emphasis is placed on nomenclature, identification, growth requirements, cultural requirements, soil preferences, landscape applications and expansion of the plant palette. Upon completion, students should be able to demonstrate knowledge of the proper selection and utilization of plant materials, including natives and invasive plants. (2015 FA)

**HOR-162**      **Applied Plant Science**      **3 (2-2)**      **SS**

**Prerequisites:**    **LSG-111, TRF-130**

**Corequisites:**    **None**

This course introduces the basic concepts of botany as they apply to horticulture. Topics include nomenclature, physiology, morphology, and anatomy as they apply to plant culture. Upon completion, students should be able to apply the basic principles of botany to horticulture. *Emphasis will be placed on plants for the golf course.* (1997 SU)

**HOR-164**      **Hort Pest Management**      **3 (2-2)**      **SS**

**Prerequisites:**    **TRF-110; HOR-160 or TRF-130**

**Corequisites:**    **None**

This course covers the identification and management of plant pests including insects, diseases, and weeds. Topics include pest identification and beneficial organisms, pesticide application safety, and use of least toxic methods of management. Upon completion, students should be able to manage common landscape pests using least toxic methods of control and be prepared to sit for North Carolina Commercial Pesticide Ground Applicators license. *Prerequisites and corequisites are applicable to Landscape Gardening program students.* (2013 FA)

**HOR-166**      **Soils & Fertilizers**      **3 (2-2)**      **S**

**Prerequisites:**    **MAT-110, MAT-121, MAT-143, MAT-152 or MAT-171**

**Corequisites:**    **None**

This course covers the physical and chemical properties of soil and soil fertility and management. Topics include soil formation; classification; physical, chemical, and biological properties (including microorganisms); testing; and fertilizer application.

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Upon completion, students should be able to analyze, evaluate, and properly amend soils/media according to sustainable practices — *specifically as these relate to a golf course putting green. (2013 FA)*

**HOR-213 Landscape Design II 3 (2-2) S**

**Prerequisites:** HOR-112, HOR-114, HOR-161

**Corequisites:** None

This course covers residential and commercial landscape design, cost analysis, and installation. Emphasis is placed on job cost estimates, installation of the landscape design, and maintenance techniques. Upon completion, students should be able to read landscape design blueprints, develop cost estimates, and implement the design. (1997 SU)

**HOR-225 Nursery Production 3 (2-2) S**

**Prerequisites:** HOR-161, HOR-164

**Corequisites:** None

This course covers all aspects of nursery crop production. Emphasis is placed on field production and covers soils, nutrition, irrigation, pest control, and harvesting. Upon completion, students should be able to produce a marketable nursery crop. (2009 SP)

**HOR-235 Greenhouse Production 3 (2-2) F**

**Prerequisites:** HOR-134

**Corequisites:** None

This course covers the production of greenhouse crops. Emphasis is placed on product selection and production based on market needs and facility availability, including record keeping. Upon completion, students should be able to select and make production schedules to successfully produce greenhouse crops. (1997 SU)

**HOR-255 Interiorscapes 2 (1-2) S**

**Prerequisites:** HOR-112

**Corequisites:** None

This course covers plant selection, design, and management for interior settings. Topics include tropical plant identification, cultural requirements, insect and disease identification and control, and design and management requirements for interior plants. Upon completion, students should be able to design, install, and manage plants in interior settings. (1997 SU)

**HOR-257 Arboriculture Practices 2 (1-3) SS**

**Prerequisites:** HOR-160

**Corequisites:** None

This course covers the culture and maintenance of trees and shrubs. Topics include fertilization, pruning, approved climbing techniques, pest control, and equipment use and safety. Upon completion, students should be able to properly prune trees and shrubs and perform arboricultural practices. (2013 SU)

**HOR-265 Advanced Plant Materials 2 (1-2) F**

**Prerequisites:** HOR-161

**Corequisites:** None

This course covers important landscape plants. Emphasis is placed on identification, plant nomenclature, growth characteristics, cultural requirements, and landscape uses.



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scheduling. Upon completion, students should be able to demonstrate an understanding of food, beverage, and labor cost control systems for operational troubleshooting and problem solving. (2011 FA)

**HRM-245      Human Resource Mgmt-Hospitality      3 (3-0)      FS**

**Prerequisites:** DRE-097 or ENG-002

**Corequisites:** None

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. (2011 FA)

**HRM-275      Leadership-Hospitality      3 (3-0)      F**

**Prerequisites:** None

**Corequisites:** None

This course introduces leadership traits, styles, and the roles and responsibilities of successful hospitality leaders while developing the student's personal leadership skills. Topics include formal and informal hospitality leadership; defining effective and ineffective leadership behavior; and leadership organizational change and planning within the hospitality industry. Upon completion, students will be able to apply appropriate leadership actions in real-world situations ranging from local to global hospitality environments. (2011 FA)

### HSE Human Services

**HSE-110      Intro to Human Services      3 (2-2)      F**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**HSE-112      Group Process I      2 (1-2)      S**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**HSE-123      Interviewing Techniques      3 (2-2)      F**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**HSE-125      Counseling      3 (2-2)      S**

**Prerequisites:** None

**Corequisites:** None

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. (2008 SP)

**HSE-210      Human Services Issues      2 (2-0)      S**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**HSE-225      Crisis Intervention      3 (3-0)      S**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

## **HUM Humanities**

**HUM-110      Technology and Society      3 (3-0)      FS SS**

**Prerequisites:** DRE-096 or ENG-002

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.*
- *Other Gen. Ed. and Premajor Elective course for A.E.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**HUM-115      Critical Thinking      3 (3-0)      FS SS**

**Prerequisites:** DRE-098 or ENG-002

**Corequisites:** None

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

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critical thinking skills in the analysis of appropriate texts. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-120 Cultural Studies 3 (3-0) AND**

**Prerequisites: None**

**Corequisites: None**

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-122 Southern Culture 3 (3-0) FS SS**

**Prerequisites: DRE-096 or ENG-002**

**Corequisites: None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-130 Myth in Human Culture 3 (3-0) FS SS**

**Prerequisites: DRE-096 or ENG-002**

**Corequisites: None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-150 American Womens Studies 3 (3-0) FS SS**

**Prerequisites: DRE-096 or ENG-002**

**Corequisites: None**

This course provides an inter-disciplinary study of the history, literature, and social roles of American women from Colonial times to the present. Emphasis is placed on women's roles as reflected in American language usage, education, law, the workplace, and mainstream culture. Upon completion, students should be able to identify and analyze the roles of women as reflected in various cultural forms. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-160 Introduction to Film 3 (2-2) FS SS****Prerequisites:** ENG-111**Corequisites:** None

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. A major emphasis of the course will be discussions and reports that analyze plot and conflict, narrative styles, character development, and theme. (1999 FA) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-161 Advanced Film Studies 3 (2-2) AND****Prerequisites:** HUM-160**Corequisites:** None

This course provides an advanced study of film art and production, building on skills learned in HUM-160. Topics include advanced film production techniques, film genres, examination of master directors' styles, and the relation of film to culture. Upon completion, students should be able to recognize and critically analyze advanced elements of film production. (2002 SP) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-170 The Holocaust 3 (3-0) F****Prerequisites:** DRE-096 or ENG-002**Corequisites:** None

This course provides a survey of the destruction of European Jewry by the Nazis during World War II. Topics include the anti-Semitic ideology, bureaucratic structures, and varying conditions of European occupation and domination under the Third Reich. Upon completion, students should be able to demonstrate an understanding of the historical, social, religious, political, and economic factors which cumulatively resulted in the Holocaust. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**HUM-211 Humanities I 3 (3-0) AND****Prerequisites:** ENG-111**Corequisites:** None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.



### ISC Industrial Science

**ISC-121**      **Envir Health & Safety**      **3 (3-0)**      **F**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (2005 SP)

**ISC-130**      **Intro to Quality Control**      **3 (3-0)**      **F**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces the philosophies, principles, and techniques of managing quality. Topics include the functions, responsibilities, structures, costs, reports, personnel, and vendor-customer relationships associated with quality control and management. Upon completion, students should be able to demonstrate an understanding of quality control and management. (1997 FA)

**ISC-243**      **Prod & Oper Management I**      **3 (2-3)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces concepts used to analyze and solve productivity and operational problems. Topics include operations strategy, forecasting, resource allocation, and materials management. Upon completion, students should be able to recognize, analyze, and solve a variety of productivity and operational problems. (2005 SP)

### LDD Light Duty Diesel

**LDD-112**      **Intro Light-Duty Diesel**      **3 (2-2)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (2013 FA)

**LDD-181**      **Ldd Fuel Systems**      **4 (2-6)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course covers the light-duty diesel fuel delivery systems in on-road applications including hydraulic electronically controlled unit injectors, common-rail, mechanical pumps, and emerging technologies. Topics include diesel combustion theory, fuel system components, electronic and mechanical controls, and fuel types and chemistries that are common to the light-duty diesel engines. Upon completion, students should be

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able to demonstrate skills necessary to inspect, test, and replace fuel delivery components using appropriate service information and tools. (2013 FA)

### LSG Landscape Gardening

*Admission to the Landscape Gardening or Golf Course Management Program is required before enrolling in LSG-121.*

**LSG-111      Basic Landscape Technique      2 (2-0)      F**

**Prerequisites:** None

**Corequisites:** None

This course introduces basic principles essential to landscape gardening. Topics include soils, propagation, watering, fertilizing, pruning, pest control, and planting. Upon completion, students should be able to perform sustainable gardening techniques essential to maintaining a sustainable landscape. (2013 FA)

**LSG-121      Fall Gardening Lab      2 (0-6)      F**

**Prerequisites:** None

**Corequisites:** LSG-111

This course provides basic hands-on experience in fall gardening techniques. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, and turf maintenance. Upon completion, students should be able to perform various techniques essential to maintaining the fall landscape. (2001 FA)

**LSG-122      Spring Gardening Lab      2 (0-6)      S**

**Prerequisites:** LSG-121

**Corequisites:** None

This course provides familiarization with basic gardening techniques by performing practical hands-on exercises required for the spring season. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, turf maintenance, and landscape construction. Upon completion, students should be able to satisfactorily perform various practices essential to maintaining the landscape in the spring season. (2001 FA)

**LSG-123      Summer Gardening Lab      2 (0-6)      SS**

**Prerequisites:** LSG-122

**Corequisites:** WBL-121

This course provides basic hands-on experience in summer gardening techniques. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, turf maintenance, landscape construction, and maintaining fruits and vegetables. Upon completion, students should be able to perform various techniques essential to maintaining the summer landscape. (2001 FA)

**LSG-231      Landscape Supervision      4 (2-6)      F**

**Prerequisites:** LSG-123 and HOR-161

**Corequisites:** None

This course provides experience in planning, implementing, and supervising various landscape management projects. Emphasis is placed on supervisory skills, organizing, and scheduling. Upon completion, students should be able to supervise employees in various landscape management jobs. (2014 FA)

**LSG-244**      **Advanced Issues/LSG**      **2 (2-0)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course covers advanced topics and issues in landscape gardening. Emphasis is placed on current issues, emerging technology, professional growth experiences, and other related topics. Upon completion, students should be able to demonstrate an understanding of advanced topics and critically analyze issues in landscape gardening. (2008 SP)

## **MAC Machining**

**MAC-111**      **Machining Technology I**      **6 (2-12)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning, and milling. (1997 SU)

**MAC-112**      **Machining Technology II**      **6 (2-12)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling. (2011 FA)

**MAC-121**      **Intro to CNC**      **2 (2-0)**      **S**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage. (1997 SU)

**MAC-122**      **CNC Turning**      **2 (1-3)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC turning centers. (1997 SU)

## **MAT Mathematics**

*Initial student placement in foundation courses is based on individual college placement policies and procedures. Students should begin foundation course work at the appropriate level indicated by that college's placement.*

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<b>MAT-003</b>	<b>Transition Math</b>	<b>3 (0-6)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>ACA-090</b>		
<p>This course provides an opportunity to customize foundational math content in specific math areas and will include developing a growth mindset. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in their gateway level math courses by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge. (2018 FA)</p>			
<b>MAT-010</b>	<b>Math Measurement &amp; Literacy Support</b>	<b>1 (0-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>MAT-110</b>		
<p>This course provides an opportunity to customize foundational math content specific to Math Measurement &amp; Literacy. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Math Measurement &amp; Literacy by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge. (2018 FA)</p>			
<b>MAT-021</b>	<b>Algebra/Trigonometry I Support</b>	<b>2 (1-2)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>MAT-121</b>		
<p>This course provides an opportunity to customize foundational math content specific to Algebra and Trigonometry I. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Algebra/Trigonometry I by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge. (2018 FA)</p>			
<b>MAT-043</b>	<b>Quantitative Literacy Support</b>	<b>2 (1-2)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>MAT-143</b>		
<p>This course provides an opportunity to customize foundational math content specific to Quantitative Literacy. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Quantitative Literacy by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge. (2018 FA)</p>			
<b>MAT-052</b>	<b>Statistical Methods I Support</b>	<b>2 (1-2)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>MAT-152</b>		
<p>This course provides an opportunity to customize foundational math content specific to Statistical Methods I. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in</p>			



Statistical Methods I by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge. (2018 FA)

**MAT-071 Precalculus Algebra Support 2 (0-4) FS**

**Prerequisites:** None

**Corequisites:** MAT-171

This course provides an opportunity to customize foundational math content specific to Precalculus Algebra. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Precalculus Algebra by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge. (2018 FA)

**MAT-110 Math Measurement & Literacy 3 (2-2) F SS**

**Prerequisites:** DMA-010 through 030 or MAT-003

**Corequisites:** None

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. (2017 FA)

**MAT-121 Algebra/Trigonometry I 3 (2-2) S SS**

**Prerequisites:** DMA-010 through 060 or MAT-003, minimum grade P2

**Corequisites:** None

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. (2017 FA) *This course has been approved to satisfy the following requirement(s):*

- *Mathematics Gen. Ed. course for A.A.S. and A.G.E.*

**MAT-143 Quantitative Literacy 3 (2-2) FS SS**

**Prerequisites:** DMA-010 through 050 or MAT-003, and DRE-098, ENG-002, or ENG-111

**Corequisites:** None

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

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quantitative information found in modern media and encountered in everyday life. (2017 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A. and A.F.A
- Mathematics Gen. Ed. course for A.S.
- Mathematics Gen. Ed. course for A.A.S. and A.G.E.

**MAT-152 Statistical Methods I 4 (3-2) FS SS**  
**Prerequisites: DMA-010 through 050 or MAT-003, and DRE-098, ENG-002, or ENG-111**

**Corequisites: None**

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. (2017 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A. and A.F.A. (visual arts)
- Mathematics Gen. Ed. course for A.S.
- Mathematics Gen. Ed. course for A.A.S. and A.G.E.

**MAT-171 Precalculus Algebra 4 (3-2) FS SS**  
**Prerequisites: DMA-010 through 080, MAT-003, minimum grade P2, or MAT-121, minimum grade C**

**Corequisites: None**

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. (2017 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.F.A., and A.S.
- Mathematics Gen. Ed. course for A.A.S. and A.G.E.

**MAT-172 Precalculus Trigonometry 4 (3-2) FS SS**  
**Prerequisites: MAT-171, minimum grade C**

**Corequisites: None**

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. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.S.

**MAT-263      Brief Calculus      4 (3-2)      FS SS****Prerequisites:** MAT-171, minimum grade C**Corequisites:** None

This course is designed to introduce concepts of differentiation and integration and their applications to solving problems. Topics include graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.S.
- Mathematics Gen. Ed. course for A.A.

**MAT-271      Calculus I      4 (3-2)      FS SS****Prerequisites:** MAT-172, minimum grade C**Corequisites:** None

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. (2014 FA)

*This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.E., A.F.A. (visual arts), and A.S.
- Mathematics Gen. Ed. course for A.A.

*A student may place directly into MAT 271 if the student has met at least one (1) of the following criteria within the past five (5) years:*

1. A score of 2 or higher on the AP Calculus AB Exam.
2. A grade of C or higher in an AP Calculus course and an unweighted HS GPA of 3.0 or higher.
3. A score of 90 or higher on the ACCUPLACER College-Level Math (CLM) test.
4. A score of 46 or higher on the trigonometry section of the ACT Compass Math Placement Test.
5. A score of 580 or higher on the SAT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state.
6. A score of 27 or higher on the ACT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state.
7. A score of 560 or higher on the SAT Subject Test in Mathematics Level 2.

**MAT-272      Calculus II      4 (3-2)      FS****Prerequisites:** MAT-271, minimum grade C**Corequisites:** None

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. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.E., A.F.A. (visual arts), and A.S.

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- *Mathematics Gen. Ed. course for A.A.*

**MAT-273      Calculus III      4 (3-2)      S**

**Prerequisites:** MAT-272, minimum grade C

**Corequisites:** None

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. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- *Mathematics Gen. Ed. course for A.A., A.E., and A.S.*

**MAT-285      Differential Equations      3 (2-2)      S**

**Prerequisites:** MAT-272, minimum grade C

**Corequisites:** None

This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and LaPlace transforms. 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 differential equations-related problems with and without technology. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Other Gen. Ed. and Premajor Elective Hour course for A.E.*

### MED Medical Assisting

**MED-120      Survey of Med Terminology      2 (2-0)      FS SS**

**Prerequisites:** None

**Corequisites:** None

This course introduces the vocabulary, abbreviations, and symbols used in the language of medicine. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots. Upon completion, students should be able to pronounce, spell, and define accepted medical terms. (1997 SU)

**MED-121      Medical Terminology I      3 (3-0)      F**

**Prerequisites:** DRE-097 or ENG-002

**Corequisites:** None

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. (1997 SU)

**MED-122 Medical Terminology II** 3 (3-0) S

**Prerequisites:** MED-121

**Corequisites:** None

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. (1997 SU)

### **MKT Marketing and Retailing**

**MKT-120 Principles of Marketing** 3 (3-0) F

**Prerequisites:** DRE-097 or ENG-002

**Corequisites:** None

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. (2015 FA)

**MKT-223 Customer Service** 3 (3-0) S

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

### **MLT Medical Laboratory Technology**

*Admission to the Medical Laboratory Technology program is required in order to enroll in MLT courses.*

**MLT-110 Intro to MLT** 3 (2-3-0) F

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**MLT-111 Urinalysis & Body Fluids** 2 (1-3-0) SS

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

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<b>MLT-120</b>	<b>Hematology/Hemostasis I</b>	<b>4 (3-3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (1997 SU)</p>			
<b>MLT-126</b>	<b>Immunology and Serology</b>	<b>2 (1-2-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (1997 SU)</p>			
<b>MLT-127</b>	<b>Transfusion Medicine</b>	<b>3 (2-3-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (1997 SU)</p>			
<b>MLT-130</b>	<b>Clinical Chemistry I</b>	<b>4 (3-3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the Quantitative Literacy 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. (1997 SU)</p>			
<b>MLT-140</b>	<b>Intro to Microbiology</b>	<b>3 (2-3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (1997 SU)</p>			

<b>MLT-215</b>	<b>Professional Issues</b>	<b>1 (1-0-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (1997 SU)			
<b>MLT-240</b>	<b>Special Clin Microbiology</b>	<b>3 (2-3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>MLT-140</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (1997 SU)			
<b>MLT-252</b>	<b>MLT Practicum I</b>	<b>2 (0-0-6)</b>	<b>F SS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (1997 SU)			
<b>MLT-255</b>	<b>MLT Practicum I</b>	<b>5 (0-0-15)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (1997 SU)			
<b>MLT-265</b>	<b>MLT Practicum II</b>	<b>5 (0-0-15)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (1997 SU)			
<b>MLT-275</b>	<b>MLT Practicum III</b>	<b>5 (0-0-15)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (1997 SU)			
<b>MLT-288</b>	<b>MLT Practicum IV</b>	<b>5 (0-0-15)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (2000 SP)			

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## MNT Maintenance

<b>MNT-110</b>	<b>Intro to Maint Procedures</b>	<b>2 (1-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards. (2013 FA)</p>			
<b>MNT-130</b>	<b>Control Systems</b>	<b>4 (2-4)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces industrial control systems which include devices such as motor controls, programmable logic controllers (PLCs), and other control components. Topics include schematics and ladder logic structures, related to PLCs, I/O identification, equipment interface, motor controls, and other electrical control devices. Upon completion, students should be able to safely install, maintain, troubleshoot and repair electrical control systems. (2002 FA)</p>			
<b>MNT-165</b>	<b>Mechanical Industrial Systems</b>	<b>2 (1-3)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers mechanical components used in industrial machine operations. Emphasis is placed on mechanical drives, belts, gears, couplings, electrical drives, and other related topics. Upon completion, students should be able to demonstrate an understanding of industrial machines and be able to maintain this equipment. (2005 SP)</p>			
<b>MNT-230</b>	<b>Pumps &amp; Piping Systems</b>	<b>2 (1-3)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers pump installation and maintenance and related valves and piping systems. Topics include various types of pump systems and their associated valves, piping requirements, and other related topics. Upon completion, students should be able to select and install pump and piping systems and demonstrate proper maintenance and troubleshooting procedures. (1997 SU)</p>			
<b>MNT-240</b>	<b>Indust Equip Troubleshoot</b>	<b>2 (1-3)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers the various service procedures, tools, instruments, and equipment necessary to analyze and repair typical industrial equipment. Emphasis is placed on electro-mechanical and fluid power equipment troubleshooting, calibration, and repair, including common techniques and procedures. Upon completion, students should be able to troubleshoot and repair industrial equipment. (2002 FA)</p>			





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<b>MTH 220</b>	<b>Outcome-Based Massage</b>	<b>7 (4-6-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>MTH-120</b>		
<b>Corequisites:</b>	<b>WBL-111</b>		

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. (2008 SP)

## MUS Music

*Students who wish to enroll in the Associate in Fine Arts in Music (A10700) program must demonstrate the appropriate level of vocal or instrument proficiency. Non-music majors may be allowed to enroll in music theory and performance classes only after demonstrating the appropriate level of proficiency prior to registering for MUS-121, 131, 133, 135, 137, 141, and 161. Students with little or no music background should enroll in MUS-111 and MUS-151.*

<b>MUS-110</b>	<b>Music Appreciation</b>	<b>3 (3-0)</b>	<b>FS SS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

<b>MUS-111</b>	<b>Fundamentals of Music</b>	<b>3 (3-0)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

This course is an introductory course for students with little or no music background. Emphasis is placed on music notation, rhythmic patterns, scales, key signatures, intervals, and chords. Upon completion, students should be able to demonstrate an understanding of the rudiments of music. (1999 FA) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective Course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

<b>MUS-112</b>	<b>Introduction to Jazz</b>	<b>3 (3-0)</b>	<b>FS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.

- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**MUS-121 Music Theory I 3 (3-0) F**  
**Prerequisites:** None  
**Corequisites:** MUS-125

This course provides an in-depth introduction to melody, rhythm, and harmony. Emphasis is placed on fundamental melodic, rhythmic, and harmonic analysis, introduction to part writing, ear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**MUS-122 Music Theory II 3 (3-0) S**  
**Prerequisites:** MUS-121  
**Corequisites:** MUS-126

This course is a continuation of studies begun in MUS-121. Emphasis is placed on advanced melodic, rhythmic, and harmonic analysis and continued studies in part-writing, ear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**MUS-125 Aural Skills I 1 (0-2) F**  
**Prerequisites:** None  
**Corequisites:** MUS-121

This course provides an introduction to the fundamentals in aural skills. Emphasis is placed on the study of basic melodies, harmonies, and rhythms through sight singing and ear training. Upon completion, students should be able to identify diatonic intervals, scales, and chords and perform and dictate simple melodies and rhythmic patterns. (2018 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

**MUS-126 Aural Skills II 1 (0-2) S**  
**Prerequisites:** MUS-125  
**Corequisites:** MUS-122

This course provides a foundation in aural skills. Emphasis is placed on the development of sight singing and ear training skills in diatonic melody, diatonic harmonic progression, and rhythmic patterns. Upon completion, students should be able to fluently read music in treble and bass clefs; utilize any solmization system while sight singing simple diatonic melodies; identify elementary diatonic chord progressions; perform rhythms in simple and compound meters; and dictate diatonic melodic, diatonic harmonic, and advanced rhythmic patterns. (2018 FA) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.*

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**MUS-131**      **Chorus I**      **1 (0-2)**      **FS**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *(1997 SU) This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-132**      **Chorus II**      **1 (0-2)**      **FS**  
**Prerequisites:**    **MUS-131**  
**Corequisites:**    **None**

This course provides a continuation of studies begun in MUS-131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *(1997 SU) This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-133**      **Band I**      **1 (0-2)**      **FS**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course provides an opportunity for those who play a band instrument to gain experience playing in an ensemble. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *(1997 SU) This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-134**      **Band II**      **1 (0-2)**      **FS**  
**Prerequisites:**    **MUS-133**  
**Corequisites:**    **None**

This course is a continuation of MUS-133. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *(1997 SU) This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-135**      **Jazz Ensemble I**      **1 (0-2)**      **FS**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course provides an opportunity for those who play an appropriate instrument to gain experience playing in a jazz ensemble. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *(1997 SU) This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-136 Jazz Ensemble II 1 (0-2) FS**  
**Prerequisites:** MUS-135  
**Corequisites:** None

This course is a continuation of MUS-135. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-137 Orchestra I 1 (0-2) FS**  
**Prerequisites:** None  
**Corequisites:** None

This course provides an opportunity for those who play an orchestral instrument to gain experience playing in an ensemble. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-138 Orchestra II 1 (0-2) FS**  
**Prerequisites:** MUS-137  
**Corequisites:** None

This course is a continuation of MUS-137. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-141 Ensemble I 1 (0-2) FS**  
**Prerequisites:** None  
**Corequisites:** None

This course provides an opportunity to perform in any combination of instrumental, vocal, or keyboard groups of two or more. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-142 Ensemble II 1 (0-2) FS**  
**Prerequisites:** MUS-141  
**Corequisites:** None

This course is a continuation of MUS-141. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to



performance. The following letter suffixes designate a specific instrument or voice: A-Voice, B-Piano, D-Flute, E-Oboe/Bassoon, F-Clarinet, G-Saxophone, H-Trumpet, J-French Horn, K-Trombone, M-Violin, N-Viola, P-Cello, R-Double Bass, S-Percussion, T-Guitar, U-Bass Guitar, V-Baritone/Tuba. (1999 FA) *This course has been approved to satisfy the following requirements:*

- Premajor and/or Elective course for A.A. and A.S.

**MUS-210 History of Rock Music 3 (3-0) AND**

**Prerequisites: None**

**Corequisites: None**

This course is a survey of Rock music from the early 1950's to the present. Emphasis is placed on musical groups, soloists, and styles related to the evolution of this idiom and on related historical and social events. Upon completion, students should be able to identify specific styles and to explain the influence of selected performers within their respective eras. (2003 FA) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**MUS-221 Music Theory III 3 (3-0) F**

**Prerequisites: MUS-122**

**Corequisites: MUS-225**

This course is a continuation of MUS-122. Emphasis is placed on altered and chromatic harmony, common practice era compositional techniques and forms, and continued studies in part-writing, ear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. (1997 SU) *This course has been approved to satisfy the following requirements:*

- Premajor and/or Elective course for A.A. and A.S.

**MUS-222 Music Theory IV 3 (3-0) S**

**Prerequisites: MUS-221**

**Corequisites: MUS-226**

This course is a continuation of studies begun in MUS-221. Emphasis is placed on continued study of common practice era compositional techniques and forms, 20th century practices, ear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. (1997 SU) *This course has been approved to satisfy the following requirements:*

- Premajor and/or Elective course for A.A. and A.S.

**MUS-225 Aural Skills III 1 (0-2) F**

**Prerequisites: MUS-126**

**Corequisites: MUS 221**

This course provides advanced aural skills training in diatonicism and basic aural skills training in chromaticism. Emphasis is placed on the development of sight singing and ear training skills in complex rhythmic patterns, diatonic melodies and harmonies, and basic chromaticism. Upon completion, students should be able to utilize any solmization system while sight singing diatonic melodies with functional and non-functional chromaticism, fluently read music in multiple clefs in addition to treble and bass, identify modulations, perform complex rhythmic patterns in various meters, and dictate tonal melodies and harmonies including chromaticism. (2018 FA) *This course has been approved to satisfy the following requirements:*

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- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-226      Aural Skills IV      1 (0-2)      S**

**Prerequisites:** MUS-225

**Corequisites:** MUS 222

This course provides advanced aural skills training in diatonicism and chromaticism. Emphasis is placed on the development of sight singing and ear training skills in chromatic melodies, chromatic harmonies, and complex rhythmic patterns. Upon completion, students should be able to utilize any solmization system while sight singing melodies containing significant chromaticism; fluently read music in multiple clefs, including treble, bass, alto, and tenor; perform and dictate rhythmic patterns in irregular and changing meters; and dictate diatonic and chromatic melodies and harmonic progressions. (2018 FA) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-231      Chorus III      1 (0-2)      FS**

**Prerequisites:** MUS-132

**Corequisites:** None

This course is a continuation of MUS-132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-232      Chorus IV      1 (0-2)      FS**

**Prerequisites:** MUS-231

**Corequisites:** None

This course is a continuation of MUS-231. Emphasis is placed on vocal techniques and the study of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance (1997 SU). *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-233      Band III      1 (0-2)      FS**

**Prerequisites:** MUS-134

**Corequisites:** None

This course is a continuation of MUS-134. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-234      Band IV      1 (0-2)      FS**

**Prerequisites:** MUS-233

**Corequisites:** None

This course is a continuation of MUS-233. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon



completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirements:

- Premajor and/or Elective course for A.A. and A.S.

**MUS-235 Jazz Ensemble III 1 (0-2) FS**  
**Prerequisites:** MUS-136  
**Corequisites:** None

This course is a continuation of MUS-136. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirements:

- Premajor and/or Elective course for A.A. and A.S.

**MUS-236 Jazz Ensemble IV 1 (0-2) FS**  
**Prerequisites:** MUS-235  
**Corequisites:** None

This course is a continuation of MUS-235. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirements:

- Premajor and/or Elective course for A.A. and A.S.

**MUS-237 Orchestra III 1 (0-2) FS**  
**Prerequisites:** MUS-138  
**Corequisites:** None

This course is a continuation of MUS-138. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirements:

- Premajor and/or Elective course for A.A. and A.S.

**MUS-238 Orchestra IV 1 (0-2) FS**  
**Prerequisites:** MUS-237  
**Corequisites:** None

This course is a continuation of MUS-237. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirements:

- Premajor and/or Elective course for A.A. and A.S.

**MUS-241 Ensemble III 1 (0-2) FS**  
**Prerequisites:** MUS-142  
**Corequisites:** None

This course is a continuation of MUS-142. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to



- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-262**      **Applied Music IV**      **2 (1-2)**      **FS**  
**Prerequisites:**    **MUS-261**  
**Corequisites:**    **None**

This course is a continuation of MUS-261. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. The following letter suffixes designate a specific instrument or voice: A-Voice, B-Piano, D-Flute, E-Oboe/Bassoon, F-Clarinet, G-Saxophone, H-Trumpet, J-French Horn, K-Trombone, M-Violin, N-Viola, P-Cello, R-Double Bass, S-Percussion, T-Guitar, U-Bass Guitar, V-Baritone/Tuba. (1999 FA) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-271**      **Music History I**      **3 (3-0)**      **F**  
**Prerequisites:**    **MUS-122**  
**Corequisites:**    **None**

This course is the first of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from Antiquity through the Baroque Period. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

**MUS-272**      **Music History II**      **3 (3-0)**      **S**  
**Prerequisites:**    **MUS-271**  
**Corequisites:**    **None**

This course is the second of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from the Classical Period to the present. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles. (1997 SU) *This course has been approved to satisfy the following requirements:*

- *Premajor and/or Elective course for A.A. and A.S.*

## NAS Nursing Assistant

*Admission to the Nurse Aide Program is required before enrolling in NAS courses.*

**NAS-101**      **Nurse Aide I**      **6 (3-4-3)**      **FS**  
**Prerequisites:**    **DRE-097 or ENG-002**  
**Corequisites:**    **None**

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. *This is a certificate-level course. (2015 SP)*

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**NAS-102**      **Nurse Aide II**      **6 (3-2-6)**      **FS**  
**Prerequisites:**    **NAS-101; DRE-097 or ENG-002**  
**Corequisites:**    **None**

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. *This is a certificate-level course. (2015 SP)*

### NET Networking Technology

**NET-125**      **Introduction to Networks**      **3 (1-4)**      **FS**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Topics include introduction to the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations. Upon completion, students should be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. *(2016 FA)*

**NET-126**      **Routing Basics**      **3 (1-4)**      **FS SS**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

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. *(2016 FA)*

**NET-225**      **Routing & Switching I**      **3 (1-4)**      **FS**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

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. *(2016 FA)*

**NET-226**      **Routing & Switching II**      **3 (1-4)**      **S**  
**Prerequisites:**    **None**  
**Corequisites:**    **None**

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. (2016 FA)

**NET-241 Introduction to VOIP 3 (2-3) F**

**Prerequisites:** None

**Corequisites:** None

This course introduces students to the terms and definitions of analog phone systems and voice over internet protocol (VOIP) networks and how to configure, maintain, and troubleshoot said networks. Topics include configuring and maintaining an internet protocol (IP) telephony system, provisioning phones and users, configuring call features, and establishing voicemail over VOIP networks. Upon completion, students should be able to discuss the terms and definitions of VOIP as well as configure and maintain an IP telephony system, provision phones and users, configure call features and voicemail. (2015 SU)

**NET-289 Networking Project 3 (1-4) S**

**Prerequisites:** CTI-110, CTI-120, and CTS-115

**Corequisites:** None

This course provides an opportunity to complete a significant networking project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete a project from the definition phase through implementation. (2016 FA)

## NOS Network Operating System

**NOS-120 Linux/UNIX Single User 3 (2-2) S SS**

**Prerequisites:** None

**Corequisites:** None

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. (2016 FA)

**NOS-130 Windows Single User 3 (2-2) FS SS**

**Prerequisites:** None

**Corequisites:** None

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. (2016 FA)

**NOS-220 Linux/Unix Admin I 3 (2-2) AND**

**Prerequisites:** NOS-120

**Corequisites:** None

This course introduces the Linux file system, group administration, and system hardware controls. Topics include installation, creation and maintaining file systems, NIS client and DHCP client configuration, NFS, SMB/Samba, Configure X, Gnome,

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KDE, basic memory, processes, and security. Upon completion, students should be able to perform system administration tasks including installation, configuring and attaching a new Linux workstation to an existing network. (2006 SP)

**NOS-230 Windows Administration I 3 (2-2) SS**

**Prerequisites:** None

**Corequisites:** None

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. (2014 FA)

## NUR Nursing

*Admission to the Associate Degree Nursing program is required before enrolling in NUR-111.*

**NUR-111 Intro to Health Concepts 8 (4-6-6) F**

**Prerequisites:** ENG-002 w/P2 or ENG-011; DMA-010 through 050, MAT-003 W/P2, MAT-021, MAT-043, MAT-052, or MAT-071

**Corequisites:** BIO-165, PSY-150, ENG-111

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. (2009 FA)

**NUR-112 Health-Illness Concepts 5 (3-0-6) S**

**Prerequisites:** NUR-111; BIO-165, PSY-150, ENG-111; all min. grade C

**Corequisites:** BIO-166, ENG-112 or ENG-114

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. (2009 FA)

**NUR-113 Family Health Concepts 5 (3-0-6) F**

**Prerequisites:** NUR-111, NUR-112, NUR-114, NUR-211, BIO-165, BIO-166, PSY-150, PSY-241, ENG-111, ENG-112 or ENG-114; all min. grade C

**Corequisites:** BIO-275, SOC-210

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. (2009 FA)



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<b>NUR-214</b>	<b>Nsg Transition Concepts</b>	<b>4 (3-0-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>ENG-111, BIO-165, PSY-150</b>		
<b>Corequisites:</b>	<b>BIO-166, ENG-112 or 114</b>		

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. (2009 SU)

### OPH Opticianry

<b>OPH-113</b>	<b>Intro to Diseases of Eye</b>	<b>2 (2-0-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OPH-150, OPH-151</b>		
<b>Corequisites:</b>	<b>None</b>		

This course introduces common external and internal diseases of the eye and orbital region. Topics include common patient complaints, ocular emergencies, triage procedures and common ocular conditions and disorders. Upon completion, the student should be able to identify most common ocular diseases and determine appropriate emergency management of acute ocular problems (2018 FA)

<b>OPH-114</b>	<b>Basic Ophthalmic Pharma</b>	<b>2 (2-0-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>OPH-150, OPH-151</b>		
<b>Corequisites:</b>	<b>None</b>		

This course introduces and compares drug delivery systems. Topics include the use of diagnostic agents and various classes of drugs commonly used in ophthalmic practices. Upon completion, the students should administer and record topical and oral medications at the physician's direction. (2018 FA)

<b>OPH-115</b>	<b>Ophthalmic Clin Proc I</b>	<b>2 (1-2-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OPH-150, OPH-151</b>		
<b>Corequisites:</b>	<b>None</b>		

This course introduces basic clinical procedures for the ophthalmic practice. Topics include telephone triage and basic procedures commonly used in the preliminary examination of patients. Topics include basic procedures commonly used in the preliminary examination of patients. Upon completion, the student should be able to perform basic administrative tasks and perform basic procedures commonly used in patient examinations. (2018 FA)

<b>OPH-116</b>	<b>Ophtha Med Assist Pract I</b>	<b>6 (0-0-18)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OPH-150, OPH-151</b>		
<b>Corequisites:</b>	<b>None</b>		

This course introduces ophthalmic patient care procedures. Topics include interpersonal skills with patients, work and legal ethics, confidentiality, clinical appearance and performance. Upon completion, the student will be able to demonstrate competence and efficiency in basic clinical skills. (2018 FA)



<b>OPH-117</b>	<b>Ophthalmic Clin Proc II</b>	<b>2 (1-2-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>OPH-115</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces more intermediate clinical procedures for the ophthalmic practice. Topics include coding and testing associated with the treatment of glaucoma, cataracts and refractive errors. Upon completion, the student should understand coding for ophthalmic procedures and perform more intermediate clinical procedures. (2018 FA)			
<b>OPH-118</b>	<b>Ophthalmic Patient Care</b>	<b>2 (2-0-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>OPH-150, OPH-151</b>		
<b>Corequisites:</b>	<b>None</b>		
This course is an overview of the care of the ophthalmic patient. Topics include systemic diseases in the eye, review of first aid, emergency equipment and supplies, infection control, identification and sterilization of minor surgical equipment, and aseptic technique. Upon completion, the students should be able to apply these principles in their interactions with patients. (2018 FA)			
<b>OPH-119</b>	<b>Ophtha Optics &amp; Basic Refract</b>	<b>2 (2-0-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OPH-150, OPH-151</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces basic theoretical and clinical optics. Topics include interaction of light and lenses, refractive states of the eye, and principles of retinoscopy and refractometry. Upon completion, the student will demonstrate physical and geometric optics, and basic refractometry techniques. (2018 FA)			
<b>OPH-120</b>	<b>Ophtha Med Assist Pract II</b>	<b>6 (0-0-18)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>OPH-116</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides additional clinical experience in ophthalmic patient care procedures. Topics include interpersonal skills with patients, work and legal ethics, confidentiality, appearance and performance. Upon completion, the student will be able to perform basic and intermediate clinical skills, working towards competence and efficiency. (2018 FA)			
<b>OPH-150</b>	<b>Intro to Ophth Med Assist</b>	<b>2 (2-0-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>OPH-151</b>		
This course introduces the role, scope, and duties of the ophthalmic assistant. Topics include medical ethics, duties of assistant, medical history, basic medical terminology, and an overview of human anatomy and physiology. Upon completion, students should be able to demonstrate knowledge of medical history taking and show an understanding of the role of ophthalmic medical personnel in patient care. (2018 FA)			
<b>OPH-151</b>	<b>Ocular Anat &amp; Physiology</b>	<b>2 (2-0-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>OPH-150</b>		
This course studies the normal anatomy and physiology of eye and orbit. Topics include structures of the eye, functioning process of the eye and correct medical terminology of the structures and functions of the eye. Upon completion, the student			

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should demonstrate a basic understanding and fundamental principles of anatomy and physiology of the eye. (1999 FA)

### OST Office Systems Technology

**OST-080**      **Keyboarding Literacy**      **2 (1-2)**      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course is designed to develop elementary keyboarding skills. Emphasis is placed on mastery of the keyboard. Upon completion, students should be able to demonstrate basic proficiency in keyboarding. (1998 SP)

**OST-131**      **Keyboarding**      **2 (1-2)**      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (1997 SU)

**OST-134**      **Text Entry & Formatting**      **3 (2-2)**      **S**

**Prerequisites:**    **OST-131, minimum grade B**

**Corequisites:**    **None**

This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability. (2008 FA)

**OST-136**      **Word Processing**      **3 (2-2)**      **SS**

**Prerequisites:**    **OST-131, ENG-111**

**Corequisites:**    **None**

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. (2008 FA)

**OST-137**      **Office Applications I**      **3 (2-2)**      **SS**

**Prerequisites:**    **ENG-111**

**Corequisites:**    **None**

This course introduces the concepts and functions of software that meets the changing needs of the community. Emphasis is placed on the terminology and use of software through a hands-on approach. Upon completion, students should be able to use software in a business environment. (2017 FA)

**OST-138**      **Office Applications II**      **3 (2-2)**      **F**

**Prerequisites:**    **OST-137**

**Corequisites:**    **None**

This course is designed to improve the proficiency in the utilization of software applications used in business offices through a hands-on approach. Emphasis is placed on in-depth usage of software to create a variety of documents applicable to current business environments. Upon completion, students should be able to master the skills



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<b>OST-156</b>	<b>Legal Office Procedures</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OST-134</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers legal office functions involved in the operation of a law office. Emphasis is placed on procedures in the law office involving the court system, legal research, litigation, probate, and real estate, personal injury, criminal, and civil law. Upon completion, students should be able to demonstrate a high level of competence in performing legal office duties. (1997 SU)</p>			
<b>OST-164</b>	<b>Office Editing</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>ENG-111, OST-131</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2017 FA)</p>			
<b>OST-184</b>	<b>Records Management</b>	<b>3 (2-2)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>ENG-111, OST-131</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2008 FA)</p>			
<b>OST-233</b>	<b>Office Publications Design</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OST-136</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides entry-level skills in using software with desktop publishing capabilities. Topics include principles of page layout, desktop publishing terminology and applications, and legal and ethical considerations of software use. Upon completion, students should be able to design and produce professional business documents and publications. (1997 SU)</p>			
<b>OST-236</b>	<b>Adv Word Processing</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OST-136</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course develops proficiency in the utilization of advanced word processing functions. Emphasis is placed on advanced word processing features. Upon completion, students should be able to produce a variety of complex business documents. (2017 FA)</p>			
<b>OST-243</b>	<b>Med Office Simulation</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OST-148</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (1998 FA)</p>			

<b>OST-247</b>	<b>Procedure Coding</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>MED-121 or OST-141, OST-148</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS coding systems. Upon completion, students should be able to properly code procedures and services performed in a medical facility. (2017 FA)			
<b>OST-248</b>	<b>Diagnostic Coding</b>	<b>3 (2-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>MED-121 or OST-141, OST-148</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides an in-depth study of diagnostic coding. Emphasis is placed on ICD coding system. Upon completion, students should be able to properly code diagnoses in a medical facility. (2017 FA)			
<b>OST-249</b>	<b>Med Coding Certification</b>	<b>3 (2-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>OST-247, OST-248</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides instruction that will prepare students to sit for a national coding certification exam. Topics include diagnostic and procedural coding. Upon completion, students should be able to sit for various medical coding certification exams. (2017 FA)			
<b>OST-250</b>	<b>Long-Term Care Coding</b>	<b>3 (2-2)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>MED-121 or OST-141</b>		
<b>Corequisites:</b>	<b>None</b>		
This course covers diagnostic coding as it applies to long-term care facilities and home care. Topics include diagnostic coding and reimbursement in long-term care facilities and home care. Upon completion, students should be able to properly code conditions for long-term care and home care services. (2017 FA)			
<b>OST-284</b>	<b>Emerging Technologies</b>	<b>2 (1-2)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>OST-134, OST-136</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides opportunities to explore emerging technologies. Emphasis is placed on identifying, researching, and presenting current technological topics for class consideration and discussion. Upon completion, students should be able to understand the importance of keeping abreast of technological changes that affect the office professional. (1999 FA)			
<b>OST-286</b>	<b>Professional Development</b>	<b>3 (3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>ENG-112 or ENG-114, OST-134</b>		
<b>Corequisites:</b>	<b>None</b>		
This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, health lifestyles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society. (1999 FA)			

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**OST-289 Office Admin Capstone 3 (2-2) S**  
**Prerequisites:** ENG-112 or ENG-114, OST-134, OST-136, OST-164  
**Corequisites:** None

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. (2017 FA)

### PED Physical Education

**PED-110 Fit and Well for Life 2 (1-2) FS SS**  
**Prerequisites:** None  
**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.
- Other Gen. Ed. and Premajor Elective course for A.E.

**PED-111 Physical Fitness I 1 (0-3) AND**  
**Prerequisites:** None  
**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

**PED-112 Physical Fitness II 1 (0-3) AND**  
**Prerequisites:** PED-111  
**Corequisites:** None

This course is an intermediate-level fitness class. Topics include specific exercises contributing to fitness and the role exercise plays in developing body systems. Upon completion, students should be able to implement and evaluate an individualized physical fitness program. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Premajor and/or Elective course for A.A. and A.S.

**PED-113 Aerobics I 1 (0-3) FS**  
**Prerequisites:** None  
**Corequisites:** None

This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is placed on developing cardiovascular efficiency, strength, and flexibility and on safety precautions. Upon completion, students should



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- *Premajor and/or Elective course for A.A. and A.S.*

**PED-122**      **Yoga I**      **1 (0-2)**      **FS SS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-123**      **Yoga II**      **1 (0-2)**      **AND**

**Prerequisites:**    **PED-122**

**Corequisites:**    **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-125**      **Self-Defense, Beginning**      **1 (0-2)**      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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 or a physical and non-physical nature. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-128**      **Golf-Beginning**      **1 (0-2)**      **F**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion, students should be able to perform the basic golf shots and demonstrate knowledge of the rules and etiquette of golf. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-129**      **Golf-Intermediate**      **1 (0-2)**      **F**

**Prerequisites:**    **PED-128**

**Corequisites:**    **None**

This course covers the more advanced phases of golf. Emphasis is placed on refining the fundamental skills and learning more advanced phases of the games such as club selection, trouble shots, and course management. Upon completion, students should be able demonstrate the knowledge and ability to play a recreational round of golf. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*



**PED-130 Tennis-Beginning 1 (0-2) FS**

**Prerequisites:** None

**Corequisites:** None

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-131 Tennis-Intermediate 1 (0-2) AND**

**Prerequisites:** PED-130

**Corequisites:** None

This course emphasizes the refinement of playing skills. Topics include continuing the development of fundamentals, learning advanced serves, and strokes and pace and strategies in singles and doubles play. Upon completion, students should be able to play competitive tennis. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-135 Fencing-Beginning 1 (0-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course introduces the fundamentals of fencing. Emphasis is placed on grip, stance, and establishment of good techniques for attacks and parries. Upon completion, students should be able to perform elementary foil techniques and demonstrate the basic skills of fencing. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-137 Badminton 1 (0-2) AND**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-138 Archery 1 (0-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course introduces basic archery safety and skills. Topics include proper techniques of stance, bracing, drawing, and releasing as well as terminology and scoring. Upon completion, students should be able to participate safely in target archery. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

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**PED-142**      **Lifetime Sports**      **1 (0-2)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-143**      **Volleyball-Beginning**      **1 (0-2)**      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-145**      **Basketball-Beginning**      **1 (0-2)**      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-147**      **Soccer**      **1 (0-2)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces the basics of soccer. Emphasis is placed on rules, strategies, and fundamental skills. Upon completion, students should be able to participate in recreational soccer. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-149**      **Flag Football**      **1 (0-2)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces the fundamentals and rules of flag football. Emphasis is placed on proper techniques and strategies for playing in game situations. Upon completion, students should be able to participate in recreational flag football. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-152**      **Swimming-Beginning**      **1 (0-2)**      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course is designed for non-swimmers and beginners. Emphasis is placed on developing confidence in the water, learning water safety, acquiring skills in floating,

and learning elementary strokes. Upon completion, students should be able to demonstrate safety skills and be able to tread water, back float, and use the crawl stroke for 20 yards. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-153            Swimming-Intermediate    1 (0-2)            AND**

**Prerequisites:**    **PED-152**

**Corequisites:**    **None**

This course is designed for those who have mastered basic swimming skills. Emphasis is placed on refining basic skills and learning new swim strokes. Upon completion, students should be able to demonstrate the four basic strokes, the scissors kick, the underwater swim, and other related skills. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-154            Swimming for Fitness    1 (0-3)            AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces lap swimming, aquacises, water activities, and games. Emphasis is placed on increasing cardiovascular efficiency through aquatic exercise. Upon completion, students should be able to develop an individualized aquatic fitness program. (2007 SP) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-160            Canoeing-Basic    1 (0-2)            AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course provides basic instruction for the beginning canoeist. Emphasis is placed on safe and correct handling of the canoe and rescue skills. Upon completion, students should be able to demonstrate basic canoeing, safe-handling, and self-rescue skills. (2007 SP) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-161            Canoeing-Rivers    1 (0-2)            AND**

**Prerequisites:**    **PED-160**

**Corequisites:**    **None**

This course provides practice in the basic skills of river and whitewater canoeing. Emphasis is placed on river running, safety, and care of equipment. Upon completion, students should be able to demonstrate navigation in a moving current, canoe safety, and self-rescue skills. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-162            Angling    1 (0-2)            AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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

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baitcaster and spinning reels and identify the various types of artificial lures. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-163 Kayaking-Basic 1 (0-2) AND**

**Prerequisites: None**

**Corequisites: None**

This course is designed to teach the basic skills of kayaking. Topics include forward and reverse strokes, sweeps, Eskimo roll, and self-rescue skills. Upon completion, students should be able to maneuver and demonstrate safe kayaking practices. (2007 SP) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-169 Orienteering 1 (0-2) AND**

**Prerequisites: None**

**Corequisites: None**

This course introduces the various types of orienteering and proper orienteering techniques. Emphasis is placed on defining various types of orienteering and recognizing and drawing topographic map symbols. Upon completion, students should be able to draw topographic map symbols and negotiate a 3-5 km cross-country orienteering course in a specified time period. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-170 Backpacking 1 (0-2) FS**

**Prerequisites: None**

**Corequisites: None**

This course covers the proper techniques for establishing a campsite, navigating in the wilderness, and planning for an overnight trip. Topics include planning for meals, proper use of maps and compass, and packing and dressing for extended periods in the outdoors. Upon completion, students should be able to identify quality backpacking equipment, identify the principles of no-trace camping, and successfully complete a backpacking experience. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-173 Rock Climbing 1 (0-2) AND**

**Prerequisites: None**

**Corequisites: None**

This course teaches the fundamental skills and safety of rock climbing. Topics include rock climbing, bouldering, rappelling, the correct method of belaying for climbing and rappelling, and knowledge of equipment. Upon completion, students should be able to demonstrate strong and skillful techniques in climbing and rappelling. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-174 Wilderness Pursuits 1 (0-2) AND**

**Prerequisites: None**

**Corequisites: None**

This course covers the skills necessary to prepare for and participate in a wilderness trip. Emphasis is placed on planning, preparing, and participating in a wilderness pack



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**PED-217 Pilates I 1 (0-2) FS**

**Prerequisites:** None

**Corequisites:** None

This course provides an introduction to the Pilates method of body conditioning exercise. Topics include instruction in beginning and intermediate Pilates exercises using a mat or equipment, history of the Pilates method, and relevant anatomy and physiology. Upon completion, students should be able to perform beginning and intermediate exercises, and possess an understanding of the benefits of conditioning the body's core muscles. *(2005 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-218 Pilates II 1 (0-2) AND**

**Prerequisites:** PED-217

**Corequisites:** None

This course provides continued instruction in the Pilates method of body conditioning exercise. Topics include instruction in intermediate and advanced Pilates exercises using a mat or equipment, relevant anatomy and physiology, and further discussion of related concepts. Upon completion, students should be able to perform intermediate and advanced exercises, and possess the autonomy to maintain their own personal Pilates practice. *(2005 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-219 Disc Golf 1 (0-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course introduces the fundamentals of disc golf. Emphasis is placed on basic throwing techniques, putting, distance driving, scoring, and single and doubles play. Upon completion, students should be able to perform the skills required in playing situations. *(2009 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PED-254 Coaching Basketball 2 (1-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course introduces the theory and methods of coaching basketball. Emphasis is placed on rules, game strategies, and selected techniques of coaching basketball. Upon completion, students should be able to demonstrate competent coaching skills in basketball. *(1997 SU) This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

## PHI Philosophy

**PHI-215 Philosophical Issues 3 (3-0) FS SS**

**Prerequisites:** ENG-111

**Corequisites:** None

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 critically evaluate the philosophical components of an issue. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**PHI-240 Introduction to Ethics 3 (3-0) FS SS**

**Prerequisites:** ENG-111

**Corequisites:** None

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. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

## PHY Physics

**PHY-110 Conceptual Physics 3 (3-0) FS**

**Prerequisites:** DMA-010 through 030 or MAT-003

**Corequisites:** PHY-110A

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.F.A., and A.S.
- Natural Science Gen. Ed. course for A.S.
- Natural Science Gen. Ed. course for A.A.S. and A.G.E.

**PHY-110A Conceptual Physics Lab 1 (0-2) FS**

**Prerequisites:** DMA-010 through 030 or MAT-003

**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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A. and A.F.A
- Natural Science Gen. Ed. course for A.S.







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of the American political system. (2014 FA) *This course has been approved to satisfy the following requirement(s):*

- UGETC course for A.A., A.E., A.F.A. and A.S.
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**POL-210 Comparative Government 3 (3-0) AND**

**Prerequisites: DRE-097 or ENG-002**

**Corequisites: None**

This course provides a cross-national perspective on the government and politics of contemporary nations such as Great Britain, France, Germany, and Russia. Topics include each country's historical uniqueness, key institutions, attitudes and ideologies, patterns of interaction, and current political problems. Upon completion, students should be able to identify and compare various nations' governmental structures, processes, ideologies, and capacity to resolve major problems. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**POL-220 International Relations 3 (3-0) AND**

**Prerequisites: DRE-097 or ENG-002**

**Corequisites: None**

This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and UN. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

## PSY Psychology

**PSY-118 Interpersonal Psychology 3 (3-0) FS**

**Prerequisites: DRE-096 or ENG-002**

**Corequisites: None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-141 Psych of Death and Dying 3 (3-0) F**

**Prerequisites: DRE-096 or ENG-002**

**Corequisites: None**

This course presents psychological perspectives on death and dying. Topics include the culturally diverse aspects of death and the grieving process, adjustment mechanisms, interventions, and the psychological and ethical dimensions of death and

dying. Upon completion, students should be able to demonstrate an understanding of the psychosocial aspects of death and dying. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-150                      General Psychology    3 (3-0)                      FS SS**

**Prerequisites:**    **DRE-097 or ENG-002**

**Corequisites:**    **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *UGETC course for A.A., A.E., A.F.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-231                      Forensic Psychology    3 (3-0)                      S**

**Prerequisites:**    **PSY-150**

**Corequisites:**    **None**

This course introduces students to concepts which unite psychology and the legal system. Topics include defining competency, insanity, involuntary commitment as well as introducing forensic assessment techniques, such as interviewing process, specialized assessments, and collecting collateral information. Upon completion, students should be able to demonstrate knowledge in areas of forensic psychology: risk assessment, criminal competencies, insanity, psychopathology, and mentally disordered offenders. (2004 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*

**PSY-237                      Social Psychology    3 (3-0)                      AND**

**Prerequisites:**    **PSY-150 or SOC-210**

**Corequisites:**    **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-239                      Psychology of Personality    3 (3-0)                      F**

**Prerequisites:**    **PSY-150**

**Corequisites:**    **None**

This course covers major personality theories and personality research methods. Topics include psychoanalytic, behavioristic, social learning, cognitive, humanistic, and trait theories including supporting research. Upon completion, students should be able to compare and contrast traditional and contemporary approaches to the understanding of individual differences in human behavior. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

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- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-241                  Developmental Psych                                  3 (3-0)                  FS SS**

**Prerequisites:**    **PSY-150**

**Corequisites:**    **None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-249                  Psychology of Aging                                  3 (3-0)                  AND**

**Prerequisites:**    **PSY-150**

**Corequisites:**    **None**

This course covers the particular needs and behaviors of the maturing adult. Emphasis is placed on psychosocial processes; biological and intellectual aspects of aging; adjustments to retirement, dying, bereavement; and the stereotypes and misconceptions concerning the elderly. Upon completion, students should be able to show an understanding of the psychological factors related to the aging process. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-255                  Intro to Exceptionality                                  3 (3-0)                  S**

**Prerequisites:**    **PSY-150**

**Corequisites:**    **None**

This course introduces the psychology of the exceptional person. Topics include theoretical perspectives, terminology, and interventions pertaining to various handicapping conditions as well as the resulting psychosocial adjustments. Upon completion, students should be able to demonstrate a basic understanding of the potentials and limitations of the exceptional person. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-259                  Human Sexuality                                  3 (3-0)                  AND**

**Prerequisites:**    **PSY-150**

**Corequisites:**    **None**

This course provides the biological, psychological, and sociocultural aspects of human sexuality and related research. Topics include reproductive biology, sexual and psychosexual development, sexual orientation, contraception, sexually transmitted diseases, sexual disorders, theories of sexuality, and related issues. Upon completion, students should be able to demonstrate an overall knowledge and understanding of human sexuality. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-263 Educational Psychology 3 (3-0) AND****Prerequisites: PSY-150****Corequisites: None**

This course examines the application of psychological theories and principles to the educational process and setting. Topics include learning and cognitive theories, achievement motivation, teaching and learning styles, teacher and learner roles, assessment, and developmental issues. Upon completion, students should be able to demonstrate an understanding of the application of psychological theory to educational practice. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-265 Behavioral Modification 3 (3-0) S****Prerequisites: PSY-150****Corequisites: None**

This course is an applied study of factors influencing human behavior and strategies for behavioral change. Emphasis is placed on cognitive-behavioral theory, behavioral assessment, practical applications of conditioning techniques, and maintenance of adaptive behavior patterns. Upon completion, students should be able to implement basic learning principles to effect behavioral changes in self and others. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-271 Sports Psychology 3 (3-0) AND****Prerequisites: PSY-150****Corequisites: None**

This course provides an overview of the field of sports and exercise psychology. Topics include concentration, goal setting, arousal level, exercise psychology, mental imagery, confidence, and other issues related to sport and exercise performance. Upon completion, students should be able to demonstrate knowledge of psychological factors involved in sport and exercise. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**PSY-275 Health Psychology 3 (3-0) AND****Prerequisites: PSY-150****Corequisites: None**

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 psychological factors related to health and well-being. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

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**PSY-281 Abnormal Psychology 3 (3-0) FS SS**  
**Prerequisites: PSY-150**  
**Corequisites: None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

### **RAD Radiography**

*Admission to the Radiography program is required before enrolling in RAD courses.*

**RAD-110 Rad Intro & Patient Care 3 (2-3-0) F**  
**Prerequisites: None**  
**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. (1997 SU)

**RAD-111 RAD Procedures I 4 (3-3-0) F**  
**Prerequisites: None**  
**Corequisites: None**

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, bony thorax and pelvis. Upon completion, students should be able to demonstrate competence in these areas. (2017 FA)

**RAD-112 RAD Procedures II 4 (3-3-0) S**  
**Prerequisites: RAD-110, RAD-111, RAD-151**  
**Corequisites: None**

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, spine, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas. (2017 FA)

**RAD-121 Image Production I 3 (2-3-0) S**  
**Prerequisites: RAD-110, RAD-111, RAD-151**  
**Corequisites: None**

This course provides the basic principles of radiographic image production. Emphasis is placed on image production, x-ray equipment, receptor exposure, and basic imaging quality factors. Upon completion, students should be able to demonstrate an understanding of basic principles of radiographic image production. (2017 FA)

<b>RAD-122</b>	<b>Image Production II</b>	<b>2 (1-3-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>RAD-112, RAD-121, RAD-161</b>		
<b>Corequisites:</b>	<b>None</b>		
This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on advanced digital principles and production. Upon completion, students should be able to demonstrate an understanding of advanced principles of digital imaging production. (2017 FA)			
<b>RAD-141</b>	<b>Radiation Safety</b>	<b>2 (2-0-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>RAD-112, RAD-121, RAD-161</b>		
<b>Corequisites:</b>	<b>None</b>		
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. (2017 FA)			
<b>RAD-151</b>	<b>RAD Clinical Ed I</b>	<b>2 (0-0-6)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>RAD-110 and RAD-111</b>		
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. (1997 SU)			
<b>RAD-161</b>	<b>RAD Clinical Ed II</b>	<b>5 (0-0-15)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>RAD-110, RAD-111, RAD-151</b>		
<b>Corequisites:</b>	<b>RAD-112 and RAD-121</b>		
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. (1997 SU)			
<b>RAD-171</b>	<b>RAD Clinical Ed III</b>	<b>3 (0-0-9)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>RAD-112, RAD-121, RAD-161</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides experience in patient management specific to advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and transitioning to mastering positioning of advanced studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives. (2017 FA)			
<b>RAD-211</b>	<b>RAD Procedures III</b>	<b>3 (2-3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>RAD-122, RAD-141, and RAD-171</b>		
<b>Corequisites:</b>	<b>None</b>		
This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, advanced imaging, radiographic pathology and image analysis. Upon			





competence in respiratory therapy concepts and procedures through written and laboratory evaluations. (2017FA)

**RCP-111 Therapeutics/Diagnostics 5 (4-3-0) S**

**Prerequisites:** RCP-110

**Corequisites:** None

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. (2017 FA)

**RCP-113 RCP Pharmacology 2 (2-0-0) S**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**RCP-114 C-P Anatomy & Physiology 3 (3-0-0) F**

**Prerequisites:** None

**Corequisites:** None

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. (2008 SP)

**RCP-115 C-P Pathophysiology 2 (2-0-0) SS**

**Prerequisites:** None

**Corequisites:** None

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. (2017 FA)

**RCP-139 RCP Clinical Practice I 9 (0-0-27) F**

**Prerequisites:** None

**Corequisites:** RCP-110

This course provides entry-level clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. (1997 SU)

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<b>RCP-149</b>	<b>RCP Clinical Practice II</b>	<b>9 (0-0-27)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>RCP-110</b>		
<b>Corequisites:</b>	<b>RCP-111</b>		
<p>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. (1997 SU)</p>			
<b>RCP-210</b>	<b>Critical Care Concepts</b>	<b>4 (3-3-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>RCP-111</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2017 FA)</p>			
<b>RCP-211</b>	<b>Adv Monitoring/Procedures</b>	<b>4 (3-3-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>RCP-210</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>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. (2017 FA)</p>			
<b>RCP-213</b>	<b>Neonatal/Ped's Concepts</b>	<b>2 (2-0-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>RCP-111</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides comprehensive coverage of the concepts of neonatal and pediatric respiratory care. Emphasis is placed on pathophysiology, patient assessment and special therapeutic needs of neonates and children based on evidence-based medicine protocols and clinical practice guidelines. Upon completion, students should be able to demonstrate competence in the neonatal and pediatric respiratory care concepts through written evaluations. (2017 FA)</p>			
<b>RCP-215</b>	<b>Career Preparation</b>	<b>1 (0-3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides an overview of respiratory therapy concepts in preparation for credentialing exam. Emphasis is placed on registry preparation. Upon completion, students should be able to demonstrate a comprehensive knowledge of respiratory therapy and be prepared for successful completion of the credentialing process. (2017 FA)</p>			



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### RLS Real Estate

**RLS-220 Real Estate Invest Analysis 3 (3-0) S**

**Prerequisites:** BUS-225

**Corequisites:** None

This course introduces techniques necessary to compare alternative real estate investments. Topics include analysis of positive and negative cash flows, risk and return, acquisition, ownership, disposition of real property, and tax considerations. Upon completion, students should be able to select from alternative investment opportunities. (1997 SU)

### SAB Substance Abuse

**SAB-110 Substance Abuse Overview 3 (3-0) F**

**Prerequisites:** None

**Corequisites:** None

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. (1997 SU)

**SAB-120 Intake and Assessment 3 (3-0) S**

**Prerequisites:** None

**Corequisites:** None

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.* (1997 SU)

**SAB-125 SA Case Management 3 (2-2) SS**

**Prerequisites:** None

**Corequisites:** None

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.* (2010 SP)

**SAB-135 Addictive Process 3 (3-0) F**

**Prerequisites:** None

**Corequisites:** None

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. (2008 SP)

**SAB-210 Sub Abuse Counseling 3 (2-2) S**

**Prerequisites: None**

**Corequisites: None**

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. (1997 SU)

**SAB-230 Family Therapy 3 (2-2) F**

**Prerequisites: None**

**Corequisites: None**

This course covers the theories and models of family systems therapy as designed for families affected by substance abuse and addiction. Emphasis is placed on structures and procedures necessary for successful family therapy, including the needs, types of resistance, and individual family dynamics. Upon completion, students should be able to understand and identify dynamics and patterns unique to families affected by substance abuse and the appropriate model of treatment. (1997 SU)

**SAB-240 Sub Issues in Client Serv 3 (3-0) SS**

**Prerequisites: None**

**Corequisites: None**

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. (1997 SU)

## SCI Science

**SCI-110 Principles of Science 4 (3-2) F**

**Prerequisites: None**

**Corequisites: None**

This course introduces basic principles of chemistry, physics, and biology. Emphasis is placed on chemical reactions, energy forms, and ecological studies. Upon completion, students should be able to demonstrate mastery of the scientific method of thought and a basic understanding of chemistry, physics, and biology. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Natural Science Gen. Ed. course for A.A.S.*

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 CURRICULUM COURSE DESCRIPTIONS
 

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## SEC Information Systems Security

**SEC-110 Security Concepts 3 (2-2) FS**

**Prerequisites:** None

**Corequisites:** None

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. (2013 SP)

**SEC-160 Security Administration I 3 (2-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course provides an overview of security administration and fundamentals of designing security architectures. Topics include networking technologies, TCP/IP concepts, protocols, network traffic analysis, monitoring, and security best practices. Upon completion, students should be able to identify normal network traffic using network analysis tools and design basic security defenses. (2016 FA)

**SEC-210 Intrusion Detection 3 (2-2) AND**

**Prerequisites:** None

**Corequisites:** None

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host-based systems. (2016 FA)

## SGD Simulation and Game Development

**SGD-111 Introduction to SGD 3 (2-3) F**

**Prerequisites:** None

**Corequisites:** None

This course provides students with an introduction to simulation and game development. Topics include setting, storytelling, narrative, character design, interface design, game play, internal economy, core mechanics, game genres, AI, the psychology of game design and professionalism. Upon completion, students should be able to demonstrate knowledge of the major aspects of simulation and game design and development. (2006 SP)

**SGD-112 SGD Design 3 (2-3) F**

**Prerequisites:** None

**Corequisites:** None

This course introduces the fundamentals of simulation and game design. Topics include industry standards and design elements for simulations and games. Upon completion, students should be able to design simple simulations and/or games. (2006 SP)

<b>SGD-113</b>	<b>SGD Programming</b>	<b>3 (2-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces the fundamentals of programming languages and tools employed in simulation and game development. Emphasis is placed on programming concepts used to create simulations and games. Upon completion, students should be able to program simple games and/or simulations. <i>(2006 SP)</i>			
<b>SGD-114</b>	<b>3D Modeling</b>	<b>3 (2-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces the tools required to create three dimensional (3D) models. Emphasis is placed on exploring tools used to create 3D models. Upon completion, students should be able to create and animate 3D models using 3D modeling tools. <i>(2006 SP)</i>			
<b>SGD-159</b>	<b>SGD Production Management</b>	<b>3 (3-0)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces the techniques and methods used in interactive game production and how to manage a project. Emphasis is placed on scheduling, production plans, marketing and budgeting. Upon completion, students should be able to manage a team, track production, and understand the process of project management. <i>(2007 SU)</i>			
<b>SGD-162</b>	<b>SG 3D Animation</b>	<b>3 (2-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces the fundamental principles of 3D animation used in simulation and game development. Emphasis is placed on a historical survey of 3D animation, aspects of the 3D animation process and 3D animation techniques. Upon completion, students should be able to produce 3D character sketches, morph simple objects, create walk and run cycles and develop professional storyboards. <i>(2006 SP)</i>			
<b>SGD-163</b>	<b>SG Documentation</b>	<b>3 (2-3)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces the techniques and methods used to create simulation and game production and design documents. Emphasis is placed on the design document to include scheduling, production plans, marketing and budgeting. Upon completion, students should be able to create design and produce documents for any simulation or game. <i>(2006 SP)</i>			
<b>SGD-167</b>	<b>SG Ethics</b>	<b>3 (3-0)</b>	<b>AND</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
This course introduces principles of philosophy and ethics as they relate to simulation and game development. Topics include moral philosophy and ethics. Upon completion, students should be able to discuss philosophical and ethical issues related to simulation and game development. <i>(2006 SP)</i>			

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<b>SGD-174</b>	<b>SG Level Design</b>	<b>3 (2-3)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the tools used to create levels for real-time simulations and games. Topics include level design, architecture theory, modeling for 3D engines and texturing methods. Upon completion, students should be able to design simple levels using industry standard tools. (2006 SP)</p>			
<b>SGD-212</b>	<b>SGD Design II</b>	<b>3 (2-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>SGD-112</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>The course covers the advanced principles of simulation and game design. Topics include advanced design concepts in simulation and game development. Upon completion, students should be able to design an advanced simulation or game. (2006 SP)</p>			
<b>SGD-213</b>	<b>SGD Programming II</b>	<b>3 (2-3)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>CSC-134, CSC-151, CSC-153, or SGD-113</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course covers advanced programming concepts used to create simulations and games. Emphasis is placed on acquiring advanced programming skills for use in creating simulations and games. Upon completion, students should be able to program an advanced simulation or game. (2012 SP)</p>			
<b>SGD-214</b>	<b>3D Modeling II</b>	<b>3 (2-3)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>SGD-114</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the tools used to create and animate advanced 3 dimensional models. Emphasis is placed on identifying and utilizing the tools required to create and animate advanced 3D models. Upon completion, students should be able to create and animate advanced 3D models using 3D modeling tools. (2006 SP)</p>			
<b>SGD-274</b>	<b>SG Level Design II</b>	<b>3 (2-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>SGD-174</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces the advanced tools used to create levels for real-time simulations and games. Topics include advanced level design and architecture theory, concepts related to “critical path” and “flow,” game balancing, playtesting and storytelling. Upon completion, students should be able to design complex levels using industry standard tools. (2006 SP)</p>			
<b>SGD-285</b>	<b>SG Software Engineering</b>	<b>3 (2-3)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>SGD-212, SGD-213, or SGD-214</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course introduces object oriented software engineering concepts related to simulation and game development. Topics include systematic approaches to the development, operation and maintenance of simulations and games. Upon completion, students should be able to apply software engineering techniques to the development of simulations and games. (2009 FA)</p>			





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sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**SOC-230**                      **Race and Ethnic Relations**                      **3 (3-0)**                      **AND**

**Prerequisites:**    **DRE-097 or ENG-002**

**Corequisites:**    **None**

This course includes an examination of the various aspects of race and ethnicity and how these lead to different experiences, opportunities, problems, and contributions. Topics include prejudice, discrimination, perceptions, myths, stereotypes, and intergroup relationships. Upon completion, students should be able to identify and analyze relationships among racial and ethnic groups within the larger society. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**SOC-234**                      **Sociology of Gender**                      **3 (3-0)**                      **AND**

**Prerequisites:**    **DRE-097 or ENG-002**

**Corequisites:**    **None**

This course examines contemporary roles in society with special emphasis on recent changes. Topics include sex role socialization, myths and stereotypes, gender issues related to family, work, and power. Upon completion, students should be able to analyze modern relationships between men and women. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Premajor and/or Elective course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**SOC-240**                      **Social Psychology**                      **3 (3-0)**                      **AND**

**Prerequisites:**    **DRE-097 or ENG-002; SOC-210**

**Corequisites:**    **None**

This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- *Social/Behavioral Science Gen. Ed. course for A.A. and A.S.*
- *Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.*

**SOC-242**                      **Sociology of Deviance**                      **3 (3-0)**                      **AND**

**Prerequisites:**    **DRE-097 or ENG-002**

**Corequisites:**    **None**

This course provides an overview of deviant behavior and the processes involved in its definition, causation, prevention, control, and treatment. Topics include theories of causation, social control, delinquency, victimization, criminality, the criminal justice system, punishment, rehabilitation, and restitution. Upon completion, students should be able to identify and analyze issues surrounding the nature and development of social

responses to deviance. (1997 SU) This course has been approved to satisfy the following requirement(s):

- Premajor and/or Elective course for A.A. and A.S.
- Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

## SPA Spanish

**SPA-111**                      **Elementary Spanish I**    **3 (3-0)**                      **FS SS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (1997 SU) This course has been approved to satisfy the following requirement(s):

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.

**SPA-112**                      **Elementary Spanish II**    **3 (3-0)**                      **FS SS**

**Prerequisites:**    **SPA-111**

**Corequisites:**    **None**

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. (1997 SU) This course has been approved to satisfy the following requirement(s):

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.

**SPA-120**                      **Spanish for the Workplace**    **3 (3-0)**                      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is placed on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion, students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity. (1997 SU)

**SPA-161**                      **Cultural Immersion**    **3 (2-3)**                      **AND**

**Prerequisites:**    **SPA-111**

**Corequisites:**    **None**

This course explores Hispanic culture through intensive study on campus and field experience in a host country or comparable area within the United States. Topics include an overview of linguistic, historical, geographical, sociopolitical, economic, and/or artistic concerns of the area visited. Upon completion, students should be able to exhibit first-hand knowledge of issues pertinent to the host area and demonstrate understanding of cultural differences. (2014 SU) This course has been approved to satisfy the following requirement(s):

- Premajor and/or Elective course for A.A. and A.S.

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**SPA-211 Intermediate Spanish I 3 (3-0) AND**

**Prerequisites: SPA-112**

**Corequisites: None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

**SPA-212 Intermediate Spanish II 3 (3-0) AND**

**Prerequisites: SPA-211**

**Corequisites: None**

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. (1997 SU) *This course has been approved to satisfy the following requirement(s):*

- Humanities/Fine Arts Gen. Ed. course for A.A. and A.S.
- Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

### SRV Surveying

**SRV-110 Surveying I 4 (2-6) SS**

**Prerequisites: ARC-111 or EGR-115**

**Corequisites: MAT-121, MAT-171, DMA-060 through 080, or MAT-003**

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. (2017 FA)

**SRV-111 Surveying II 4 (2-6) F**

**Prerequisites: SRV-110**

**Corequisites: None**

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. (1997 SU)

**SRV-210 Surveying III 4 (2-6) S**

**Prerequisites: SRV-110**

**Corequisites: None**

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. (1997 SU)



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<b>SUR-111</b>	<b>Periop Patient Care</b>	<b>7 (5-6-0)</b>	<b>F</b>
<b>Prerequisites:</b>	<b>None</b>		
<b>Corequisites:</b>	<b>SUR-110</b>		
<p>This course provides the surgical technology student the theoretical knowledge required to function in the pre-operative, intra-operative, and post-operative role. Topics include asepsis, disinfection and sterilization, physical environment, instrumentation, equipment, peri-operative patient care, and peri-operative case management. Upon completion, students should be able to apply the principles and practice of the peri-operative team member to the operative environment. (2012 SP)</p>			
<b>SUR-122</b>	<b>Surgical Procedures I</b>	<b>6 (5-3-0)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>SUR-110, SUR-111</b>		
<b>Corequisites:</b>	<b>SUR-123</b>		
<p>This course provides an introduction to selected basic and intermediate surgical specialties that students are exposed to the first clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment. (2016 SP)</p>			
<b>SUR-123</b>	<b>Sur Clinical Practice I</b>	<b>7 (0-0-21)</b>	<b>S</b>
<b>Prerequisites:</b>	<b>SUR-110, SUR-111</b>		
<b>Corequisites:</b>	<b>SUR-122</b>		
<p>This course provides clinical experience with a variety of perioperative assignments to build upon skills learned in SUR-111. Emphasis is placed on the scrub and circulating roles of the surgical technologist including aseptic technique and basic case preparation for selected surgical procedures. Upon completion, students should be able to prepare, assist with, and dismantle basic surgical cases in both the scrub and circulating roles. (1997 SU)</p>			
<b>SUR-134</b>	<b>Surgical Procedures II</b>	<b>5 (5-0-0)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>SUR-123</b>		
<b>Corequisites:</b>	<b>None</b>		
<p>This course provides a comprehensive study of intermediate and advanced surgical specialties that students are exposed to in the second clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment. (2016 SP)</p>			
<b>SUR-135</b>	<b>SUR Clinical Practice II</b>	<b>4 (0-0-12)</b>	<b>SS</b>
<b>Prerequisites:</b>	<b>SUR-123</b>		
<b>Corequisites:</b>	<b>SUR-134</b>		
<p>This course provides clinical experience with a variety of perioperative assignments to build skills required for complex perioperative patient care. Emphasis is placed on greater technical skills, critical thinking, speed, efficiency, and autonomy in the operative setting. Upon completion, students should be able to function in the role of an entry-level surgical technologist. (2010 FA)</p>			

**SUR-137 Professional Success Prep 1 (1-0-0) SS**

**Prerequisites:** None

**Corequisites:** None

This course provides employability skills and an overview of theoretical knowledge in preparation for certification. Topics include test-taking strategies, resume preparation, interviewing strategies, communication skills, and teamwork concepts. Upon completion, students should be able to prepare a resume, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification. (2016 SU)

**SUR-210 Adv SUR Clinical Practice 2 (0-0-6) S**

**Prerequisites:** None

**Corequisites:** None

This course is designed to provide individualized experience in advanced practice, education, circulating, and managerial skills. Emphasis is placed on developing and demonstrating proficiency in skills necessary for advanced practice. Upon completion, students should be able to assume leadership roles in a chosen specialty area. (2010 FA)

**SUR-211 Adv Theoretical Concepts 2 (2-0-0) S**

**Prerequisites:** None

**Corequisites:** None

This course covers theoretical knowledge required for extension of the surgical technologist role. Emphasis is placed on advanced practice in complex surgical specialties, educational methodologies, and managerial skills. Upon completion, students should be able to assume leadership roles in a chosen specialty area. (2010 FA)

### **TRF Turfgrass Management**

**TRF-110 Intro Turfgrass Cult & ID 4 (3-2) S**

**Prerequisites:** LSG-111, LSG-121; MAT-110, MAT-121, MAT-143, MAT-152, or MAT-171

**Corequisites:** None

This course covers the principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawns. Topics include principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawn applications. Upon completion, students should be able to identify turfgrass species and develop an establishment and maintenance plan for high quality turf areas in accordance with sustainable practices. (2013 FA)

**TRF-120 Turfgrass Irrigat & Design 4 (2-4) F**

**Prerequisites:** MAT-110, MAT-121, MAT-143, MAT-152, or MAT-171; TRF-110

**Corequisites:** WBL-131, TRF-260

This course covers the basic techniques involved in the design, layout, installation, and use of water-wise turfgrass irrigation systems. Topics include types of irrigation systems, components of the systems, materials available for use, and economic considerations. Upon completion, students should be able to complete a functional design for a turfgrass irrigation system according to sustainable practices. (2013 FA)

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**TRF-130 Native Flora ID 2 (1-3) S**  
**Prerequisites:** None  
**Corequisites:** None

This course covers identification of selected native ground covers and woodland trees by summer and/or winter characteristics. Emphasis is placed on mature age, fall colors, site adaptability, and habit of growth for special turf-related areas. Upon completion, students should be able to identify native plants by size and leaf, bud, twig, and limb formation. *Emphasis will be placed on plant selection for the golf course. (1997 SU)*

**TRF-230 Turfgrass Mgmt Apps 2 (1-2) F**  
**Prerequisites:** ENG-112 or ENG-114; HOR-166; MAT-110, MAT-121, MAT-143, MAT-152, or MAT-171  
**Corequisites:** WBL-131, GCM-230

This course introduces specific sports field design, installation, and maintenance. Topics include natural grass croquet courts and baseball, soccer, and football fields. Upon completion, students should be able to perform specific tasks in layout, field marking, and preparing for tournament play. *Major emphasis will be placed on golf courses. (1997 SU)*

**TRF-260 Adv Turfgrass Mgmt 4 (3-2) F**  
**Prerequisites:** ENG-112 or ENG-114; TRF-110  
**Corequisites:** GCM-230

This course covers the principles and practices involved in turfgrass management. Topics include choosing the best management practice in mowing, pest control, fertilization, irrigation, traffic control, air control, budgeting, and materials procurement. Upon completion, students should be able to demonstrate knowledge of the principles covered and select and apply the best practices in turfgrass management. *(1997 SU)*

### TRN Transportation Technology

**TRN-110 Intro to Transport Tech 2 (1-2) FS**  
**Prerequisites:** None  
**Corequisites:** None

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. *(2013 FA)*

**TRN-120 Basic Transp Electricity 5 (4-3) FS**  
**Prerequisites:** None  
**Corequisites:** None

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. (2013 FA)

**TRN-140 Transp Climate Control 2 (1-2) S SS**

**Prerequisites:** None

**Corequisites:** None

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. (2013 FA)

**TRN-140A Transp Climate Cont Lab 2 (1-2) S SS**

**Prerequisites:** None

**Corequisites:** 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. (2013 FA)

**TRN-180 Basic Welding for Transp 3 (1-4) AND**

**Prerequisites:** None

**Corequisites:** None

This course covers the terms and procedures for welding various metals used in the transportation industry with an emphasis on personal safety and environmental health. Topics include safety and precautionary measures, setup/operation of MIG equipment, metal identification methods, types of welds/joints, techniques, inspection methods, cutting processes and other related issues. Upon completion, students should be able to demonstrate a basic knowledge of welding operations and safety procedures according to industry standard. (2013 FA)

### WBL Work-Based Learning

**WBL-110 GCM World of Work 1 (1-0) F**

**Prerequisites:** None

**Corequisites:** None

This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to successfully make the transition from school to work (2014 FA)

**WBL-111 ARC Work-Based Learning I 1 (0-10) AND**

**Prerequisites:** None

**Corequisites:** None

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,

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students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. (2014 FA)

**WBL-111 AUT Work-Based Learning I 1 (0-10) AND**

**Prerequisites: None**

**Corequisites: None**

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. (2014 FA)

**WBL-111 AUB Work-Based Learning I 1 (0-10) AND**

**Prerequisites: None**

**Corequisites: None**

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. (2014 FA)

**WBL-111 BPA Work-Based Learning I 1 (0-10) F**

**Prerequisites: None**

**Corequisites: None**

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. (2014 FA)

**WBL-111 CIV Work-Based Learning I 1 (0-10) AND**

**Prerequisites: None**

**Corequisites: None**

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. (2014 FA)

**WBL-111 CJC Work-Based Learning I 1 (0-10) SS**

**Prerequisites: DRE-097 or ENG-002; CJC-241, CJC-132, CJC-141, or CJC-121**

**Corequisites: WBL-115**

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. *Students should plan their prerequisite course based upon where they plan to complete their co-op work: CJC-132, Courthouse; CJC-141, Department of Corrections; CJC-121, Law Enforcement Agency; CJC-241, Community Corrections.* (2014 FA)

**WBL-111 COS Work-Based Learning I 1 (0-10) FS SS****Prerequisites:** None**Corequisites:** WBL-115

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. This course provides the internship work experience for cosmetology students specified by the North Carolina Board of Cosmetic Art and all requirements for enrollment must be fulfilled prior to enrolling in this class. (2014 FA)

**WBL-111 CUL Work-Based Learning I 1 (0-10) FS SS****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-111 FIP Work-Based Learning I 1 (0-10) F****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-111 GCM Work-Based Learning I 1 (0-10) S****Prerequisites:** ENG-111, LSG-121**Corequisites:** HOR-166

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. Approved situations will include golf courses within ten (10) miles of Sandhills Community College. (2014 FA)

**WBL-111 HFS Work-Based Learning I 1 (0-10) F****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

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 CURRICULUM COURSE DESCRIPTIONS
 

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**WBL-111 HRM Work-Based Learning I** **1 (0-10)** **F**

**Prerequisites:** None

**Corequisites:** None

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. (2014 FA)

**WBL-111 HST Work-Based Learning I** **1 (0-10)** **FS SS**

**Prerequisites:** HSE-110, HSE-123, PSY-150, SOC-210

**Corequisites:** WBL-115

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. (2014 FA)

**WBL-111 IS Work-Based Learning I** **1 (0-10)** **AND**

**Prerequisites:** None

**Corequisites:** WBL-115

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. (2014 FA)

**WBL-111 LSG Work-Based Learning I** **1 (0-10)** **S**

**Prerequisites:** LSG-111 and LSG-121; MAT-110, MAT-121, MAT-143, MAT-152 or MAT-171

**Corequisites:** HOR-134, LSG-122, TRF-110

This course provides work experience at Sandhills Horticultural Gardens under the supervision of the SCC faculty in areas 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. Students will be assigned projects in college greenhouses and on campus property. (2014 FA)

**WBL-111 MTH Work-Based Learning I** **1 (0-10)** **AND**

**Prerequisites:** None

**Corequisites:** None

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. (2014 FA)

**WBL-112 ARC Work-Based Learning I 2 (0-20) AND****Prerequisites: None****Corequisites: None**

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. (2014 FA)

**WBL-112 AUT Work-Based Learning I 2 (0-20) AND****Prerequisites: None****Corequisites: None**

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. (2014 FA)

**WBL-112 CIV Work-Based Learning I 2 (0-20) AND****Prerequisites: None****Corequisites: None**

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. (2014 FA)

**WBL-112 CUL Work-Based Learning I 2 (0-20) S****Prerequisites: None****Corequisites: None**

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. (2014 FA)

**WBL-113 ARC Work-Based Learning I 3 (0-30) AND****Prerequisites: None****Corequisites: None**

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. (2014 FA)

**WBL-113 CIV Work-Based Learning I 3 (0-30) AND****Prerequisites: None****Corequisites: None**

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,

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 CURRICULUM COURSE DESCRIPTIONS
 

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students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. (2014 FA)

**WBL-115 CJC Work-Based Learning Seminar I 1 (1-0) SS**  
**Prerequisites:** DRE-097 or ENG-002; CJC-241, CJC-132 CJC-141, or CJC-121

**Corequisites:** WBL-111

This course will provide the student with an opportunity to evaluate practical experiences in the criminal justice field. Students will discuss with their faculty their co-op work in the criminal justice setting. *Students should plan their prerequisite course based upon where they plan to complete their co-op work: CJC-132, Courthouse; CJC-141, Department of Corrections; CJC-121, Law Enforcement Agency; CJC-241, Community Corrections. (2014 FA)*

**WBL-115 COS Work-Based Learning Seminar I 1 (1-0) SS**  
**Prerequisites:** None  
**Corequisites:** WBL-111

This course provides an opportunity to report work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, employability skills and work-related competencies. (2014 FA)

**WBL-115 HFS Work-Based Learning Seminar I 1 (1-0) F**  
**Prerequisites:** None  
**Corequisites:** WBL-111

This course provides an opportunity to report work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, employability skills and work-related competencies. (2014 FA)

**WBL-115 HST Work-Based Learning Seminar I 1 (1-0) FS SS**  
**Prerequisites:** None  
**Corequisites:** WBL-111

This course provides the student with an opportunity to evaluate practical experiences in the human services field. Students will discuss with faculty their co-op work in a human services agency and relationships to curriculum components. (2014 FA)

**WBL-115 IS Work-Based Learning Seminar I 1 (1-0) AND**  
**Prerequisites:** None  
**Corequisites:** WBL-111

This course provides an opportunity to report work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, employability skills and work-related competencies. (2014 FA)

**WBL-121 ARC Work-Based Learning II 1 (0-10) AND****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-121 AUB Work-Based Learning II 1 (0-10) AND****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-121 CIV Work-Based Learning II 1 (0-10) AND****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-121 CUL Work-Based Learning II 1 (0-10) S****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-121 FIP Work-Based Learning II 1 (0-10) S****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-121 GCM Work-Based Learning II 1 (0-10) SS****Prerequisites:** WBL-111, ENG-114**Corequisites:** None

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,

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 CURRICULUM COURSE DESCRIPTIONS
 

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students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. Approved situations will include golf courses within ten (10) miles of Sandhills Community College. (2014 FA)

**WBL-121 HFS Work-Based Learning II 1 (0-10) S**

**Prerequisites: None**

**Corequisites: None**

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. (2014 FA)

**WBL-121 HRM Work-Based Learning II 1 (0-10) S**

**Prerequisites: None**

**Corequisites: WBL-111**

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. (2014 FA)

**WBL-121 HST Work-Based Learning II 1 (0-10) FS SS**

**Prerequisites: WBL-111**

**Corequisites: WBL-125**

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. (2014 FA)

**WBL-121 IS Work-Based Learning II 1 (0-10) AND**

**Prerequisites: WBL-111**

**Corequisites: None**

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. (2014 FA)

**WBL-121 LSG Work-Based Learning II 1 (0-10) SS**

**Prerequisites: WBL-111**

**Corequisites: LSG-123**

This course provides work experience at Sandhills Horticultural Gardens under the supervision of the SCC faculty in areas 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. Students will be assigned projects in college greenhouses and on campus property. (2014 FA)



**WBL-122 ARC Work-Based Learning II 2 (0-20) AND****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-122 AUT Work-Based Learning II 2 (0-20) AND****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-122 CIV Work-Based Learning II 2 (0-20) AND****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-125 HST Work-Based Learning Seminar II 1 (1-0) FS SS****Prerequisites:** WBL-111, WBL-115**Corequisites:** WBL-121

This course is designed to prepare the student for graduation and possible employment. The seminar will provide the student an opportunity to discuss with a faculty member the experiences in the agency and employment opportunities in the human services field. The student will also develop a resume for interviews in preparation for employment. (2014 FA)

**WBL-131 BPA Work-Based Learning III 1 (0-10) AND****Prerequisites:** None**Corequisites:** None

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. (2014 FA)

**WBL-131 GCM Work-Based Learning III 1 (0-10) F****Prerequisites:** WBL-121**Corequisites:** None

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,

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 CURRICULUM COURSE DESCRIPTIONS
 

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students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. Approved situations will include golf courses within ten (10) miles of Sandhills Community College. (2014 FA)

**WBL-131 LSG Work-Based Learning III 1 (0-10) F**

**Prerequisites:** WBL-121

**Corequisites:** HOR-268, HOR-235, LSG-231

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. Students will be assigned projects in college greenhouses and on campus property. (2014 FA)

**WBL-132 AUT Work-Based Learning III 2 (0-20) AND**

**Prerequisites:** None

**Corequisites:** None

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. (2014 FA)

**WBL-132 BPA Work-Based Learning III 2 (0-20) AND**

**Prerequisites:** None

**Corequisites:** None

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. (2014 FA)

**WBL-212 LSG Work-Based Learning IV 2 (0-20) SS**

**Prerequisites:** None

**Corequisites:** None

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. (2014 FA)

**WBL-214 GCM Work-Based Learning IV 4 (0-40) S**

**Prerequisites:** None

**Corequisites:** None

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. (2014 FA)

## WEB Web Technologies

**WEB-110**      **Internet/Web Fundamentals**      3 (2-2)      **FS**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (2008 FA)

**WEB-111**      **Intro to Web Graphics**      3 (2-2)      **S**

**Prerequisites:**    **GRD-151**

**Corequisites:**    **None**

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. (2010 SP)

**WEB-115**      **Web Markup and Scripting**      3 (2-2)      **S**

**Prerequisites:**    **WEB-110**

**Corequisites:**    **None**

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. (2008 FA)

**WEB-140**      **Web Development Tools**      3 (2-2)      **AND**

**Prerequisites:**    **WEB-115**

**Corequisites:**    **None**

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. (2006 SP)

**WEB-151**      **Mobile Application Dev I**      3 (2-2)      **AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. (2011 FA)



**WEB-225            Content Management Sys                            3 (2-2)            AND**

**Prerequisites:**    **WEB-110**

**Corequisites:**    **None**

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. *(2016 FA)*

**WEB-251            Mobile Application Dev II                            3 (2-2)            AND**

**Prerequisites:**    **WEB-151**

**Corequisites:**    **None**

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. *(2011 FA)*

**WEB-285            Emerging Web Technologies                            3 (2-2)            AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course will explore, discuss, and research emerging technologies in the Web arena. Emphasis is placed on exposure to up-and-coming technologies relating to the web, providing hands-on experience, and discussion of practical implications of these emerging fields. Upon completion, students should be able to articulate issues relating to these technologies. *(2006 SP)*

## **WLD Welding**

**WLD-111            Oxy-Fuel Welding                            2 (1-3)            AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

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. *(1997 SU)*

**WLD-112            Basic Welding Processes                            2 (1-3)            AND**

**Prerequisites:**    **None**

**Corequisites:**    **None**

This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes. *(1997 SU)*

## COLLEGE PERSONNEL

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Heather Lyons.....	<i>Executive Assistant to the President/Dean of College Initiatives</i>

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Dwight Threet.....	<i>Director of Police and Public Safety</i>

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Dr. Rebecca Roush .....	<i>Vice President of Academic Affairs</i>
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Mary Brideschge.....	<i>Director of Curriculum Operations and Leadership Development</i>
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Jessica Locklear.....	<i>Curriculum Associate - Curriculum</i>
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Heather Lyons.....	<i>Dean of College Initiatives</i>
Alicia Riggan.....	<i>Assistant Athletic Director</i>
Ryan Riggan.....	<i>Assistant Athletic Director</i>
Tammy Stewart.....	<i>Associate Dean of Learning Resources &amp; Head Librarian</i>
Alfreda Stroman.....	<i>Dean of Campus Diversity and Cultural Programs</i>

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Denise Cameron.....	<i>Director, Law Enforcement &amp; Emergency Medical Services (EMS)</i>
Maria Campbell.....	<i>Director, WIOA Education Navigator</i>
Lori Degre.....	<i>Director, Allied Health, Career and Technology Training</i>
Rhonda Gamble.....	<i>Director, Continuing Education Business Operations and Registrar</i>
Jason Levister.....	<i>Director, Student Success, Scholarships and Data Support</i>
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Jenny Troyer.....	<i>Director, Career Development, Online and Prison Programs</i>
Lori Williams.....	<i>Associate Dean, Continuing Education Operations</i>
Nicole Worley.....	<i>Director, College and Career Readiness</i>

### **Office of the Vice President of Institutional Advancement**

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Cassidy Benjamin.....	<i>Associate Director of Foundation Outreach</i>
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Gwen Russell.....	<i>Director of Career Development Services</i>
Shenika Ward.....	<i>Director of Student Life</i>
TBA.....	<i>Administrative Assistant to the Vice President and Dean of Student Services</i>

## Department Chairs

Computer Technologies .....	<i>Diane L. Innes</i>
Cosmetology .....	<i>Tonya S. Parks</i>
Culinary and Pastry Arts .....	<i>Fiona C. McKenzie</i>
Engineering Technologies .....	<i>F. Edwin Spitler, Jr.</i>
English and Humanities .....	<i>Susan S. Grine</i>
Fine Arts .....	<i>Dr. Andrew Ryan Book</i>
Health Sciences .....	<i>Susan Senior</i>
Management and Business Technologies .....	<i>Dr. D. Kirk Lynch</i>
Mathematics .....	<i>John Williamson</i>
Nursing .....	<i>Dr. Lynne B. Phifer</i>
Physical Education .....	<i>Timothy C. Nocton</i>
Public Service .....	<i>Susan Wright</i>
Science .....	<i>Michelle Hatley</i>
Social and Behavioral Sciences .....	<i>Ginny Gaweda</i>
Transportation Services .....	<i>Stephen L. Ingham</i>

## Faculty

**Please note:** *Faculty names marked with an asterisk are retired professors employed as adjunct instructors.*

Adams, Wayne, Ph.D.* .....	<i>Sociology</i> B.S., M.S., PhD, North Carolina State University
Allen, Abbe .....	<i>Humanities, History, Political Science, Fine Arts</i> B.A., Miami University; M.S.S., Ohio University; M.A., Political Science, M.A., Education, The Ohio State University.
Allen, Bobby W.* .....	<i>Sociology</i> B.S., University of Maryland; M.A., Fayetteville State University
Allen, Samantha B. ....	<i>Coordinator, Therapeutic Massage</i> B.S., Eastern Kentucky University; M.A. Oriental Medicine, Southwest Acupuncture College



- Allred, Allison B. .... *Biology*  
B.S., University of North Carolina at Pembroke; M.A. Ed., Western Carolina University
- Altergott, Hannah..... *Nursing*  
B.S.N., M.S.N., South Dakota State University
- Ash, Madie ..... *Coordinator, Sociology*  
B.A., NC Central; M.S., North Carolina A & T University
- Babb, Jackie M. .... *Coordinator, Digital Media Technology*  
A.A.S., Sandhills Community College; B.A., St. Andrews Presbyterian College
- Baker, Robert H., Ed.D.\* ..... *Sociology*  
A.A.S., Central Piedmont Community College; B.A., East Carolina University; M.Ed.,  
Ed.D., North Carolina State University
- Basinger, Shelby Q. .... *Coordinator, Health and Fitness Science*  
B.A., University of North Carolina at Chapel Hill; M.Ed., The University of Virginia
- Blevins, Hilarie B..... *Coordinator, Landscape Gardening*  
A.A.S., Sandhills Community College
- Book, A. Ryan, D.M.A. .... *Chair, Fine Arts/Coordinator, Music*  
B.S., M.A., Radford University; D.M.A., Shenandoah Conservatory
- Boreliz, Jacqueline ..... *Coordinator, Business Administration-Hospitality Management*  
B.S., University of North Carolina at Wilmington; M.B.A., University of North  
Carolina at Pembroke
- Bradley, Pamela C.\* ..... *Psychology*  
B.A., University of West Florida; M.A., University of North Carolina at Pembroke
- Brannan, Kathryn ..... *Mathematics*  
A.S., Sandhills Community College; B.S., North Carolina State University; M.S.,  
University of North Carolina at Pembroke
- Brannan, Patricia W.\* ..... *English*  
A.S., A.A.S., Sandhills Community College; B.S., M.A.Ed., University of North  
Carolina at Pembroke
- Braun-Kane, Marta ..... *Nurse Aide*  
B.S.N., Indiana University of Pennsylvania; M.A.Ed., Regis University
- Brown, Brennan ..... *Science*  
B.S., Louisiana Tech University

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 COLLEGE PERSONNEL
 

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- Brown, Julia\* ..... *Nursing*  
 B.S.N., East Carolina; M.A.Ed., North Carolina State University
- Brunner, Martin, CEPC, CHE ..... *Coordinator, Baking and Pastry Arts*  
 A.A.S., Sandhills Community College; A.A.S., Johnson & Wales University; B.S.,  
 University of North Carolina at Pembroke
- Bumgarner, Sarah J. .... *Coordinator, Entrepreneurship*  
 B.A., University of North Carolina at Asheville; M.B.A. Appalachian State University
- Chandler, Linda A. .... *Mathematics*  
 B.S., Christopher Newport University; M.S., North Carolina State University
- Chapin, Donna ..... *Nursing*  
 B.S.N., University of North Carolina at Wilmington; M.S.N., Duke University School  
 of Nursing
- Clark, Karen R. .... *English*  
 B.S., M.S.A., Fayetteville State University; M.Ed., North Carolina Central University
- Collins, Victoria. .... *Coordinator, Medical Office Admin. and Office Systems Tech.*  
 B.A., North Carolina State University; J.D., Georgia State University
- Cox, Heather D. .... *Nursing*  
 A.D.N., Sandhills Community College; B.S.N., M.S.N., University of North Carolina  
 at Greensboro
- Crownfield, Heea..... *Fine Arts*  
 B.A., Guilford College; M.F.A., Clemson University
- Currier, Christopher R., CEC, CHE, CIC, CICE ..... *Culinary Arts*  
 A.O.S., Culinary Institute of America
- Danley, Barbara P. .... *English*  
 A.A.S., A.A., Sandhills Community College; B.A., University of North Carolina at  
 Chapel Hill; M.A., University of North Carolina at Pembroke
- Davies, Keith ..... *Coordinator, Aviation Management and Career Pilot Technology*  
 M.S.A., North Carolina State University
- Dempsey, John R., Ph.D. .... *Political Science*  
 B.A., University of Notre Dame; M.A., College of William and Mary; Ph.D., University  
 of Massachusetts at Amherst

- Dennison, Carlene W.\* ..... *Mathematics*  
B.S., Ohio State University; M.A., Ohio State University
- Dial, Matthew ..... *Biology*  
B.S., M.A., University of North Carolina at Pembroke
- Dousharm, Margaret ..... *Nurse Aide*  
Diploma, Milwaukee County Medical Complex School of Nursing
- Edwards, Paul ..... *Coordinator, Fire Protection Technology*  
B.S., Bell State University; M.S., Indiana Wesleyan University
- Elick, Karen ..... *Nursing*  
B.S.N., Marian College of Fond du Lac; M.S.N., University of Southern Indiana
- Emmons, Tracey T. .... *Science*  
A.D.N., Sandhills Community College; B.S., M.A.E., Austin Peay University
- Enloe, Karen ..... *Cosmetology*  
A.A.S., Sandhills Community College
- Farina, Mary Alice ..... *Therapeutic Massage*  
A.A.S., B.A., State University of New York, Albany; M. A. University of Phoenix
- Fields, Kallie ..... *Biology*  
B.S., University of North Carolina at Chapel Hill; M.S., University of North Carolina at Pembroke
- Forrest, Christine T. .... *Coordinator, Medical Lab Technology*  
B.S., M.S., Old Dominion University
- Garty, Pamela W.\* ..... *Nursing*  
A.D.N., Sandhills Community College; B.S., University of North Carolina at Chapel Hill; M.S.N., Duke University
- Garner, David Brian ..... *Coordinator, Collision Repair and Refinishing*  
A.A.S., Sandhills Community College
- Garner, Robin, S. MSAH RT (R) (M) ..... *Coordinator, Radiography*  
A.A.S. Sandhills Community College; B.A., Ashford University; M.S.A.H., East Tennessee State

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 COLLEGE PERSONNEL
 

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- Gaweda, Ginny L. .... *Chair, Social and Behavioral Sciences*  
 ..... *Coordinator, History, Political Science, and Psychology*  
 A.A., Fayetteville Technical Community College; B.A., M.A., University of North  
 Carolina at Wilmington
- Golden, Peter J. .... *Chemistry*  
 A.A., Broward Community College; B.S., University of Florida; M.S., University of  
 Houston
- Grine, Susan S. .... *Chair, English and Humanities*  
 B.A., Wake Forest University; M.A.T., The Citadel; M.Ed., North Carolina State  
 University
- Hackett, Tarshima M., Ed.D. .... *English*  
 B.S., M.A., North Carolina Central University; Ed.D., Argosy University
- Hair, Joe..... *Philosophy, Religion*  
 B.A., Campbell University; M. Div., Southeastern Baptist Theological
- Haley, Timothy R.\* ..... *Music*  
 B.M., Lawrence University; M.M., East Carolina University
- Harris, Patricia L. .... *Human Services Technology, Psychology*  
 B.S., Eastern Michigan University; M.Ed., University of North Carolina at Chapel Hill
- Hatley, Michelle L. .... *Chair, Science/Coordinator, Chemistry*  
 B.S., Appalachian State University; M.S. Texas A & M University
- Hawkins, Ronda R. .... *Early Childhood Education*  
 A.S., Corning Community College; B.S., St. John Fisher College; M.A., Concordia  
 University
- Herring, Maulin C., Ph.D..... *Sociology*  
 M.A., North Carolina Central University; M.A., University of Tennessee; Ph.D., Apex  
 School of Theology
- Hill, Laura D., Ed.D. .... *Psychology*  
 A.A., Peace College; A.B., University of North Carolina at Chapel Hill; M.Ed., Ed.D.,  
 North Carolina State University
- Hoffman, Carol A. L.C.A S., C.C.S. .... *Coordinator, Human Services Technology*  
 B.S., Florida State University; M.S., Eastern Michigan University
- Hooker, Rick ..... *Coordinator, Networking Technology*  
 A.A.S., Sandhills Community College; B.S., Guilford College

- Ingham, Stephen L. .... *Chair, Transportation Systems/Coordinator, Automotive Systems*  
A.A.S., Catonsville Community College; GM ASEP, GM Motor Corporation
- Innes, Diane L. .... *Chair, Computer Technologies/Coordinator, Computer Programming*  
A.A.S., Sandhills Community College; B.S. Ed., Western Carolina University; M.B.A.,  
M.S., University of North Carolina at Pembroke
- Jenkins, Tina .....*Nursing*  
B.S.N., University of North Carolina at Pembroke; M.S.N., East Carolina University
- Johnson, Johnnerlyn.....*Coordinator, Student Success Strategies; English*  
B.A., University of South Carolina; M.S., Capella University
- Johnson, Peggy F.\* .....*Early Childhood Education*  
B.A., University of Cincinnati; M.Ed., Xavier University
- Johnson, Xavier..... *Mathematics*  
B.S., North Carolina State University; M.A., Wake Forest University
- Jones, Kevin Layton ..... *Collision Repair and Refinishing*  
A.A.S., Sandhills Community College
- Kauffman, Wendy A. .... *Computer Technologies*  
B.A., Marietta College; M.Ed., Ohio University
- Kehoe, Robert.....*Director of BLET*  
B.S., University of Dayton; M.S., St. Joseph's University
- Kenzel, Jeannine W., CST .....*Coordinator, Surgical Technology*  
A.A.S., Sandhills Community College; B.A., St. Andrews Presbyterian College; M.S.,  
Troy State University
- Kruska, Cathleen ..... *Coordinator, Communication*  
B.A., California State University; M.A., California State University
- Kulka, Joanne M., DNP .....*Nursing*  
A.D.N. Sandhills Community College; B.S.N., Oakland University; M.S.N. Wayne  
State University; D.N.P., Duke University
- Lawhorne, Alison..... *English*  
B.A., University of North Carolina at Greensboro; M.A., East Carolina University
- Layne, Ronald L. .... *Communication, English, Humanities*  
B.A., M.A., Winthrop University; Communication Studies, University of North  
Carolina at Greensboro

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 COLLEGE PERSONNEL
 

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- Livingston, Felita.....*Medical Office Administration, Office Systems Technology*  
B.S., M.Ed., Strayer University
- Lorion, Lori..... *Coordinator, Visual Arts*  
B.A., Carrol College; M.F.A., University of North Carolina at Greensboro
- Lynch, D. Kirk, Ed.D .....*Chair, Management & Business Technologies*  
B.S., Colorado State University; M.S., M.B.A. University of Colorado; Ed.D., North Carolina State University
- Martinez, Kathy M., Ph.D. .... *English*  
A.A., Davidson County Community College; B.A., University of North Carolina at Greensboro; M.A., North Carolina A&T State University; Ph.D., Indiana University of Pennsylvania
- May, Janna B.S.R.S., R.T. (R.)(C.T.) .....*Radiography*  
A.A.S., Sandhills Community College; B.S.R.S., University of North Carolina at Chapel Hill
- McDow, Holly ..... *Mathematics*  
B.S., Elon College; M.S., University of North Carolina at Chapel Hill
- McKenzie, Fiona, CCC, CCE, CHE, FMP ..... *Chair, Culinary & Pastry Arts*  
..... *Coordinator, Culinary Arts*  
A.A.S., Sandhills Community College
- McLeod, Jaime J. .... *eLearning, Instructional Designer, Computer Technologies*  
A.A.S., Sandhills Community College; B.A., St. Andrews Presbyterian College; M.S., East Carolina University
- McManamon, Lindsay ..... *Coordinator, Architectural Technology*  
B.S., Eastern Michigan University; M.S., Lawrence Technological University
- McMillian, Celethia, Ph.D. .... *Mathematics*  
M.S., Fayetteville State University; Ph.D., North Carolina State University
- McNamara, Kathy E. .... *Nursing*  
B.S., University of New Mexico; M.S., University of Virginia
- McNeill, J. Lawrence, Jr., Ph.D.\* ..... *English*  
B.A., Davidson College; M.A., Ph.D., University of South Carolina
- Mitchell, Arthenia F. .... *Cosmetology*  
A.A.S., Sandhills Community College

- Morris Powell, Jenell ..... *Coordinator, Nurse Aide*  
A.D.N., Sandhills Community College; B.S.N., University of North Carolina at  
Pembroke; M.S.N., University of Phoenix
- Morse, Jeanne J., Ph.D. .... *Physics*  
B.A., Appalachian State University; M.S., Ph.D., North Carolina State University
- Mullen, Cydney K., Ph.D. .... *Nursing*  
B.S.N., M.S.N., University of Texas; Ph.D., University of North Carolina at Chapel Hill
- Nocton, Timothy C. .... *Chair, Physical Education; Coordinator, C-STEP*  
B.S., Indiana State University, M.S., University of North Carolina at Pembroke
- Oelfke, Teddy D.\* ..... *Business Administration-Hospitality Management*  
A.S., Community College of the Air Force; B.S., Troy State University; M.S., Florida  
International University
- Parker, Johna K. .... *Computer Programming*  
B.A., Campbell University
- Parks, Tonya S. .... *Chair, Cosmetology*  
Certificate, Asheboro Beauty School; A.A.S., Sandhills Community College
- Partin, Joseph ..... *English*  
B.A., M.A., North Carolina State University
- Pettigrew, TyRonda, RCP, RRT ..... *Respiratory Therapy*  
A.A.S., Sandhills Community College; B.S., Austin Peay State University
- Phifer, Lynne B., DNP ..... *Chair, Nursing*  
B.S.N., M.P.H., University of North Carolina at Chapel Hill; D.N.P., Duke University
- Phile, Sara Renée ..... *English*  
B.A., M.A.T. in English Education, University of North Carolina at Pembroke
- Pope, Glenda ..... *Coordinator, Religion and Humanities*  
A.A., Richmond Community College; B.A., University of North Carolina at Pembroke;  
M.Div. with Biblical Languages, Gardner Webb University
- Pope, William ..... *History*  
B.A., Thomas Edison State College; M.A., Fayetteville State University
- Proulx, Charles ..... *Automotive Systems Technology*  
A.A.S., Sandhills Community College

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 COLLEGE PERSONNEL
 

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- Purvis, Alberta ..... *Coordinator, Ophthalmic Medical Personnel*  
L.P.N., Young Memorial Voc-Tech, LA
- Query, Jayne\* ..... *Nursing*  
B.S.N., West Virginia University; M.S.N., East Carolina University
- Reece, R. David ..... *Coordinator, Criminal Justice Technology*  
A.A.S., Central Texas College; A.A., Fayetteville Technical Community College; B.S.,  
Methodist University; M.S.C.J., Boston University
- Regalado, J. Daniel ..... *Mathematics*  
B.S., University of North Carolina at Greensboro; M.S., North Carolina State University
- Riggan, Alicia B. .... *Physical Education; Coach, Women's Volleyball*  
B.S., M.A., University of North Carolina at Pembroke
- Robertson, Lewis C.\* ..... *Biology*  
A.S., Sandhills Community College; B.S., Master of Life Science; M.S., North Carolina  
State University
- Robinson, Scott R. .... *Digital Media Technology, eLearning*  
A.A.B., Northwest State Community College; A.O.S., Culinary Institute of America;  
A.F.A., A.A.S, A.A., Sandhills Community College
- Roush, Rebecca S., Ph.D. .... *Biology*  
B.A., Ohio Wesleyan University, Delaware, Ohio; M.S., Ph.D., University of  
Wisconsin, Madison
- Schliep, Denise ..... *Medical Laboratory Technology*  
B.A., East Carolina University
- Schultz, Martha\* ..... *Nursing*  
B.S.N., East Carolina University; M.S.N., East Carolina University
- Senior, Susan A. .... *Chair, Health Sciences*  
A.A.S., Niagara County Community College; B.S., M.S., State University of New York  
at Buffalo
- Sheets, Susan ..... *Mathematics*  
B.S., Radford University; M.S., Virginia Commonwealth University; M.Ed., Wake  
Forest University
- Sheffield, Matthew T. .... *Coordinator, Architectural; Engineering Technologies*  
A.A.S., Sandhills Community College; B.S., University of North Carolina at Charlotte



- Skura, Catherine A. .... *Coordinator, University Studies; Economics*  
B.A., Brooklyn College of the City University of New York; M.E., North Carolina State University
- Speth, Mary M. .... *Coordinator, Accounting and Finance*  
B.A., M.B.A., University of South Carolina
- Spitler, Edwin F. .... *Chair, Engineering Technologies/Coordinator, Geomatics*  
A.A.S.E.E.T., Central Carolina Community College; A.A.S.C.E.T., A.A.S.S.T., Sandhills Community College; B.S.C.E.T., University of North Carolina at Charlotte; M.G.I.S.T., North Carolina State University
- Stancil, Nancy ..... *Nursing*  
B.S., University of North Carolina at Chapel Hill; M.S., University of Phoenix
- Steel, Paul C. .... *Coordinator, Computer Engineering Technology*  
A.S., A.A.S., Sandhills Community College
- Stroman, Alfreda T. .... *English*  
B.A., Claflin College; M.A., Fayetteville State University
- Stromko, Stephen M. .... *Coordinator, Simulation and Game*  
A.A.S., Sandhills Community College; B.S., Western Governors University
- Swanson, Richard, Ph.D.\* ..... *Science, Engineering Technologies*  
B.S., US Air Force Academy; M.S., Ohio State University; Ph.D., University of New Mexico
- Teal, Ryan L ..... *Coordinator, Emergency Medical Science*  
A.A.S., Montgomery Community College; B.S., Western Carolina University; M.P.A., University of North Carolina at Pembroke
- Thomas, Jennifer ..... *Music*  
B.M., Oberlin College Conservatory of Music, G.D./M.M., New England Conservatory of Music
- Toney, Nevius ..... *Coordinator, Business Administration*  
B.S., North Carolina A & T University; M.S., Central Michigan University
- Trevarrow, Heather S. .... *Coordinator, Psychology*  
B.A., University of Michigan; M.A., Wayne State University
- Van Pelt, Craig, Ph.D. .... *Sociology*  
B.A., University of Colorado; M.A., Ph.D., University of Oregon

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 COLLEGE PERSONNEL
 

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- Velázquez-Fraticelli, Yamil ..... *Spanish*  
 B.A., Catholic University of Puerto Rico; M.S.A., Central Michigan University; Post  
 Graduate Certificate, University of North Carolina at Wilmington
- Ventola, Michael W. .... *Coordinator, Golf Course Management*  
 B.S., Michigan State University; M.S., Rutgers, The State University of New Jersey
- Voigt, Julie A. Ph.D. .... *Sociology*  
 A.A., Guilford Technical Community College; B.A., M.A., Ph.D., University of North  
 Carolina at Greensboro
- Wade, Kim M. .... *Cosmetology*  
 Certificate, Sandhills Community College; A.A.S., Sandhills Community College;  
 B.A., St. Andrews Presbyterian College
- Westmen, James F. .... *Landscape Gardening*  
 A.A.S., A.F.A., Sandhills Community College
- Westmen, Johanna. .... *Landscape Gardening*  
 A.A.S., Sandhills Community College; A.S., Sandhills Community College
- Whitesell, Kristi M. .... *Coordinator, Biology*  
 B.S., University of North Carolina at Pembroke; M.A., University of North Carolina at  
 Pembroke
- Williams, Leslie E., R.C.P. .... *Coordinator, Respiratory Therapy*  
 A.A.S., Sandhills Community College; B.S., Methodist College; M.S., Troy University
- Williams, Stefanie ..... *Clinical Coordinator, Emergency Medical Science*  
 A.A.S., Sandhills Community College
- Williamson, John ..... *Chair, Mathematics*  
 B.S., North Carolina Wesleyan College; M.A., East Carolina University
- Wright, Dana H. .... *Cosmetology*  
 A.A.S., Sandhills Community College
- Wright, Susan M. .... *Chair, Public Service; Coordinator, Early Childhood Education*  
 B.S., University of Wisconsin; M.A., University of North Carolina at Pembroke
- Xiong, Wei, Ph.D. .... *Psychology*  
 A.S., Chengdu University; Ph.D., University of Tennessee

Young, Alysa.....*Nursing*  
 A.D.N., St. Louis Community College; B.S.N., Goldfarb School of Nursing; M.S.N.,  
 Maryville University

### **Distinguished Professors**

Since its inception, Sandhills Community College has been blessed to secure the long-term commitment of caring and dedicated faculty. Among that group, these professors have achieved the rare distinction of serving the College in excess of thirty (30) years of full-time faculty service.

Such an achievement, and such a level of devotion to a single institution, is rare in any college or university, and Sandhills Community College has determined that such devotion should be recognized. Thus, the President of the College has bestowed upon the following faculty Distinguished Professor status in perpetuity. The professors are listed with their academic discipline.

Alex Cameron .....*Automotive*  
 Sandhills Community College, Western Carolina University, NC State University

Barbara Cole .....*English and Humanities*  
 UNC at Greensboro

Willie Gray Harris, Jr. ....*Religion and Humanities*  
 High Point College, Southeastern Baptist Theological Seminary

Timothy Howle .....*Architectural Engineering*  
 Sandhills Community College

Cynthia Kennedy .....*Physical Fitness*  
 Appalachian State University, UNC Pembroke

Richard N. Lewis, Jr. ....*English and Humanities*  
 UNC at Chapel Hill

John McNerney .....*Mathematics*  
 Holy Cross College, UNC at Chapel Hill

Judy McNerney .....*Mathematics*  
 University of Chattanooga, UNC at Chapel Hill

William Clifton Stuckey, III .....*Fine Arts – Art*  
 East Carolina University

Frances Wilson .....*Fine Arts - Music*  
 Lenoir-Rhyne College, Appalachian State University

### **Adjunct Faculty**

Evan Adams .....*English and Humanities*

Dr. Mamie Allen .....*English and Humanities*

Dr. Thomas Allen.....*English and Humanities*

Melissa Anderson.....*Nursing*

Marsha Apke .....*Mathematics*

Oluwunmi Ariyo .....*English and Humanities*

## COLLEGE PERSONNEL

Michael Bachman .....	<i>Health Sciences</i>
Dr. Robin Bairley .....	<i>Science</i>
Angela Ball .....	<i>Physical Education</i>
Jessica Ball.....	<i>Science</i>
Rosemary Barker .....	<i>Mathematics</i>
Indrayani Battle .....	<i>Social and Behavioral Sciences</i>
Dr. Nancy Beale .....	<i>Social and Behavioral Sciences</i>
Julian Beltran .....	<i>English and Humanities</i>
Dr. Jennifer Bittner.....	<i>Social and Behavioral Sciences</i>
Christie Blue .....	<i>Social and Behavioral Sciences</i>
Grace Elizabeth Bockoven.....	<i>Science</i>
Gwen Bratcher.....	<i>Health Sciences</i>
Robyn Brown.....	<i>Social and Behavioral Sciences</i>
Dixie Canady .....	<i>Nursing</i>
Heidi Chalflinch .....	<i>Nursing</i>
Audrey Chambers.....	<i>Cosmetology</i>
Elizabeth Chick.....	<i>Fine Arts, Computer Technologies</i>
Angela Clark.....	<i>Health Sciences</i>
Christopher Colón .....	<i>Fine Arts</i>
Ronald Corrado.....	<i>Health Sciences</i>
Cathy Cowling.....	<i>Engineering Technologies</i>
Ronald Currie.....	<i>Health Sciences</i>
Susan Crandall.....	<i>Nursing</i>
Deborah Davies .....	<i>Culinary and Pastry Arts</i>
Katyna DeBerry-Spaine .....	<i>English and Humanities</i>
Patricia DeGraffenreidt .....	<i>Health Sciences</i>
Amber Dierking.....	<i>English and Humanities</i>
Tricia Donadio.....	<i>English and Humanities</i>
Erin Ducker.....	<i>Culinary and Pastry Arts</i>
Eric Duncanson.....	<i>Engineering Technologies</i>
Brandon Dyer.....	<i>Social and Behavioral Sciences</i>
Laura Farrell .....	<i>Mathematics</i>
Dr. Mary Ann Fewkes.....	<i>Social and Behavioral Sciences</i>
Melissa Fisher.....	<i>Public Services</i>
Bill Flint .....	<i>Public Service</i>
Brittany Gilbert.....	<i>Fine Arts</i>
Caitlin Gironda .....	<i>Fine Arts</i>
Samantha Godsey .....	<i>Mathematics</i>
Cary Greene .....	<i>Management and Business Technologies</i>
Lauren Harden .....	<i>Health Sciences</i>
Angel Hayes.....	<i>Public Service</i>
Dr. Kristina Henckel .....	<i>Fine Arts</i>
Carolyn Helms.....	<i>Nursing</i>
Jason Hendrickson.....	<i>Engineering Technologies</i>
Robert Hill .....	<i>Fine Arts</i>
Jason Howk.....	<i>Social and Behavioral Sciences</i>

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Dr. Anthony Hubert .....	<i>Social and Behavioral Sciences</i>
Dr. Lu Huntley .....	<i>English and Humanities</i>
Caroline Hudson .....	<i>English and Humanities</i>
Shawn Jackson .....	<i>Science</i>
Jennifer Jawanda .....	<i>Science</i>
Charles Johnson .....	<i>Engineering Technologies</i>
Caitlin Jones-May .....	<i>Social and Behavioral Sciences</i>
Zachary Jones .....	<i>English and Humanities</i>
Dr. Andrew Jung .....	<i>English and Humanities</i>
Hannah Keller .....	<i>English and Humanities</i>
Jason Kelsh .....	<i>Social and Behavioral Sciences</i>
Kimberly Kiesewetter .....	<i>Social and Behavioral Sciences</i>
Eric Kopecky .....	<i>Fine Arts</i>
Richard Kruska .....	<i>Social and Behavioral Sciences</i>
Siew Kwoh .....	<i>Social and Behavioral Sciences</i>
Lyn Lane .....	<i>Engineering Technologies</i>
Rodney Lane .....	<i>Engineering Technologies</i>
Raymond Lee .....	<i>Mathematics</i>
Lee Leonard .....	<i>Management and Business Technologies</i>
Larry Little .....	<i>Management and Business Technologies</i>
Chelsae Long .....	<i>Social and Behavioral Sciences</i>
Marciarose Long .....	<i>English and Humanities</i>
Dr. Denise Lowe .....	<i>English and Humanities</i>
Joshua Lowery .....	<i>Fine Arts</i>
Heather Lyons .....	<i>Social and Behavioral Sciences</i>
Dr. Patricia Lyons .....	<i>English and Humanities</i>
Jennifer MacDonald .....	<i>Health Sciences</i>
Dr. Kim Madrigal .....	<i>English and Humanities</i>
Joe Mancos .....	<i>Health Sciences</i>
Victoria Mantalos .....	<i>Nursing</i>
Candice Martin .....	<i>Science</i>
Adam Matthews .....	<i>Physical Education</i>
Dr. Carmen McCann .....	<i>Fine Arts</i>
Taylor McCaskill .....	<i>Public Services</i>
Dorothy McFadden .....	<i>Nursing</i>
Barton Alan McKinley .....	<i>Transportation Technology</i>
Dr. Rufus McLean .....	<i>Science</i>
Lindsay Miller .....	<i>English and Humanities</i>
Carol Mulcahy .....	<i>Nursing</i>
Nathan Niaramba .....	<i>Nursing</i>
John O'Brien .....	<i>Engineering Technologies</i>
Jean Ontiveros-Squier .....	<i>Mathematics</i>
Gayle Parker .....	<i>English and Humanities</i>
Dr. Robert Patrick .....	<i>Social and Behavioral Sciences</i>
Alex Patti .....	<i>English and Humanities</i>
William Patton .....	<i>Engineering Technologies</i>

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 COLLEGE PERSONNEL
 

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Herb Pike .....	<i>Physical Education</i>
Janae Poe.....	<i>English and Humanities</i>
Leah Popoca.....	<i>Health Sciences</i>
Wendy Powers.....	<i>Cosmetology</i>
Melonie Pusser .....	<i>Nursing</i>
Dr. Cynthia Reeves.....	<i>Social and Behavioral Sciences</i>
John Regan.....	<i>Social and Behavioral Sciences</i>
Diane Reynolds.....	<i>Public Service</i>
Todd Richter .....	<i>Culinary and Pastry Arts</i>
Michelle Roberson .....	<i>Health Sciences</i>
Dr. Rebecca Rodriguez .....	<i>Engineering Technologies</i>
Robin Rourke.....	<i>Computer Technologies</i>
Jacob Sanchez.....	<i>Computer Technologies</i>
Cindy Scheib-Novosel .....	<i>Nursing</i>
David Seiberling .....	<i>Fine Arts</i>
Eileen Sikinger .....	<i>Nursing</i>
Amber Simpson .....	<i>English and Humanities</i>
Anna Slaughter .....	<i>Health Sciences</i>
Michael Sparks .....	<i>Fine Arts</i>
Chantel Stanfield .....	<i>Nursing</i>
Karen Stein .....	<i>Nursing</i>
Kathryn Stephens.....	<i>Science</i>
Court Stewart.....	<i>Fine Arts</i>
Dr. Daniel Stewart.....	<i>English and Humanities</i>
Shelley Stockton.....	<i>Nursing</i>
Kelly Taylor.....	<i>English and Humanities</i>
Dr. Karen Tharrington.....	<i>English and Humanities</i>
Jason Thomas.....	<i>Computer Technologies</i>
Robert Thome .....	<i>Social and Behavioral Sciences</i>
George Thompson.....	<i>Engineering Technologies</i>
Dr. David Townsend .....	<i>English and Humanities</i>
Paula Tugman .....	<i>Nursing</i>
Yovanna Vest.....	<i>Public Service</i>
Jaeline Warnock .....	<i>Health Sciences</i>
Mirian Watts .....	<i>Science</i>
Christy Weaver.....	<i>Physical Education</i>
Angela Webb .....	<i>Culinary and Pastry Arts</i>
Laura Webb.....	<i>Nursing</i>
Faydra Womble .....	<i>English and Humanities</i>
Anna Yeatts.....	<i>Science</i>
Heather Zerbel .....	<i>Nursing</i>
Amy Ziebart.....	<i>Nursing</i>

### Academic Support

Wendy Kauffman .....	<i>Dean of Academic Support</i>
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Taylor McCaskill .....	<i>Director of Academic Support Initiatives</i>
Jaime McLeod .....	<i>eLearning Support and Design Specialist</i>
Scott Robinson .....	<i>Assistant Director of eLearning and Online Accessibility</i>
Shalishah Russell .....	<i>Coordinator of Tutoring, Disability, and Volunteer Services</i>

## Athletics

Michael Apple .....	<i>Athletic Director</i>
Alicia Riggan .....	<i>Assistant Athletic Director</i>
Ryan Riggan .....	<i>Assistant Athletic Director</i>

## Audio Visual/Campus Services

Steve Melone .....	<i>Director of Auditorium and Audio Visual Services</i>
Daniel Shea .....	<i>Printing Services Coordinator</i>
Chris Waldrop .....	<i>Audio Visual Technical Specialist</i>

## Buildings and Grounds Maintenance

Douglas Smith .....	<i>Facilities Director</i>
Kenneth Dowdy .....	<i>Construction Coordinator</i>
Charla Matthews .....	<i>Administrative Assistant</i>
Vernon Morrison .....	<i>Safety Coordinator</i>
Ellen Spencer .....	<i>Office Coordinator</i>

### DAY STAFF

Jeremy Beal .....	<i>Fleet Mechanic/Locksmith</i>
Jonathan Black .....	<i>General Maintenance</i>
George Brideschge .....	<i>General Maintenance</i>
Thomas Burns .....	<i>Grounds Maintenance</i>
David Clevenger .....	<i>Lead Maintenance Technician</i>
Brian Collins .....	<i>Structural Maintenance</i>
J.P. Easterly .....	<i>Mail/Shipping/Receiving Clerk</i>
Steven Garner .....	<i>Structural Supervisor</i>
Dennis Holder .....	<i>Grounds Supervisor</i>
Daniel Kennedy .....	<i>Grounds Maintenance</i>
Kenneth F. Locklear .....	<i>Custodian</i>
Mark Pracht .....	<i>Grounds Maintenance</i>
Jarvis Smith .....	<i>HVAC Technician</i>
Darren Taylor .....	<i>General Maintenance</i>
Anthony Trolio .....	<i>HVAC Technician</i>
Phillip Williams .....	<i>Housekeeping Supervisor</i>

### EVENING STAFF

Kenneth Collins .....	<i>Evening Housekeeping Supervisor</i>
David Horton .....	<i>Evening Housekeeping Supervisor</i>
Ricky Stephens .....	<i>Custodian</i>

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 COLLEGE PERSONNEL
 

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### **Business Office and Finance**

Elizabeth Thomas .....	<i>Associate Vice President for Finance and Chief Financial Officer</i>
Joe Brown .....	<i>Controller</i>
Portia F. Clark .....	<i>Accounts Payable Specialist</i>
Royilyn Derr .....	<i>Purchasing Specialist</i>
M. Katharine du Pont .....	<i>Director of Accounting</i>
Rachel T. Gagliardi .....	<i>Payroll Accountant</i>
Marla Goodwin .....	<i>Inventory Control Specialist</i>
Stephanie Lang .....	<i>Manager of Student Accounts</i>
Melissa Sherman .....	<i>Accounts Payable/Receivable Specialist</i>
Pam Taylor .....	<i>Cash Receipts Specialist</i>

### **Campus Police and Public Safety**

Dwight Threet .....	<i>Director of Police and Public Safety</i>
Rick Bickel .....	<i>Emergency Preparedness/Campus Police Officer</i>
Joseph Steppe.....	<i>Crime Prevention Office/Campus Police Officer</i>

### **Continuing Education Division**

Andi Korte .....	<i>Vice President for Continuing Education and Workforce Development</i>
Michelle Bauer .....	<i>Director, Public Safety Fire and Rescue Training Programs</i>
Kimberly Blue .....	<i>Associate Dean, Continuing Education Compliance &amp; Accountability</i>
Danaka Bunch.....	<i>Director, Center for Creative Living and Lifelong Learning Institute</i>
Isabel Cain .....	<i>Instructional Coordinator, College and Career Readiness</i>
Amy Caliri .....	<i>Coordinator, Continuing Education Program Support</i>
Denise Cameron .....	<i>Director, Law Enforcement/EMS Training</i>
Maria Campbell .....	<i>Director, WIOA Education Navigator</i>
Karen DeCata.....	<i>Transitions Coordinator, College and Career Readiness</i>
Lori Degre.....	<i>Director, Allied Health, Career and Technology Training</i>
Stephen Fisk.....	<i>Instructor, Advanced Manufacturing</i>
Rhonda Gamble .....	<i>Director, Continuing Education Business Operations and Registrar</i>
Anna Harrington.....	<i>High School Equivalency (HSE) Test Administrator and</i> <i>Orientation Coordinator</i>
Rebecca Kimbrell .	<i>Instructional Coordinator Hoke County, College and Career Readiness</i>
Jason Levister .....	<i>Director, Student Success, Scholarships, and Data Support</i>
Ronnie Patton.....	<i>Senior Director of Customized Training &amp; Advanced Manufacturing</i>
Sandy Perry .....	<i>Continuing Education Registration and Support Specialist</i>
Tess Regan.....	<i>Registration Associate</i>
Teresa Reynolds .....	<i>Director, Small Business Center and</i> <i>Dedman Center for Business Leadership</i>
Deneane Smith.....	<i>Coordinator, Advanced Manufacturing</i>
Angie Swayne .....	<i>Associate Director, College and Career Readiness</i>
Jenny Troyer .....	<i>Director, Career Development, Online and Prison Programs</i>
Meg Wilkins .....	<i>Coordinator, College and Career Readiness Program Support</i>
Lori Williams.....	<i>Associate Dean, Continuing Education Operations</i>



Nicole Worley .....*Director, College and Career Readiness*

### **High School Liaisons**

Phyllis Dowdy .....*Director of High School Relations for Moore County High Schools,  
..... Out-of-County High Schools, Private High Schools & Home Schools*  
Kimberly McMillan .....*Director of High School and College Relations, Hoke County*

### **Hoke County Center**

Twana McKnight .....*Dean of the Hoke Center*  
Obie Blue .....*Maintenance/Grounds Technician*  
Margaret Dousharm .....*Instructor, Nursing Assistant Program*  
Rebecca Kimbrell..*Instructional Coordinator Hoke County, College and Career Readiness*  
Rosa McAllister-McRae ...*Director of Student Services, Hoke Center/ Personal Counselor*  
Kimberly McMillan .....*Director of High School & College Relations, Hoke County*  
Kelly Peele.....*Program Associate*  
Walter Rea.....*Campus Police Officer*  
Diane Reynolds .....*Program Coordinator*  
Cindy White .....*Campus Police Officer*

### **Human Resources**

Wendy Dodson .....*Associate Vice President of Human Resources*  
Shaquanna Adams .....*Human Resources Specialist*  
Marina Figueroa.....*Human Resources Specialist*

### **Information Technology Services**

Roderick B. Brower .....*Chief Information Officer*  
Billy Barber .....*Information Technology Analyst II*  
Julian Carrington.....*Information Technology Analyst I*  
Donald Crump Karst.....*Telecommunications Coordinator*  
Bobby Henderson .....*Senior Network Administrator*  
Brandon Hussey .....*Information Technology Analyst I*  
Jonathan McLeod .....*Programmer Analyst/Project Manager*  
Chad Parrish .....*Web Developer/Content Strategist*  
Kenjuandru Rice.....*CIS System Administrator*  
Debi Ring .....*Data Analyst*  
Tara Taylor.....*Receptionist/Switchboard Operator*  
Charlotte Tomeski.....*Receptionist/Switchboard Operator*  
Suzanne Via.....*Director of Technology Support*

### **Instructional Support**

Lavada Alsbrook .....*Administrative Assistant for eLearning/Faculty Secretary*  
Traci Batson .....*Faculty Secretary*

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 COLLEGE PERSONNEL
 

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Mary Lou Coffey .....	<i>BLET Records Management Specialist</i>
Dana Cuellar .....	<i>Faculty Secretary</i>
Virginia Ferguson .....	<i>Faculty Secretary</i>
Nichole Holloway.....	<i>Faculty Secretary</i>
Cathy McLean .....	<i>Faculty Secretary</i>

### **Learning Resources (Boyd Library and Learning Resources Computer Lab)**

Yvette Ausby .....	<i>Learning Resources Computer Lab Associate</i>
Winnie Barnes .....	<i>Technical Service Supervisor</i>
Carl Danis .....	<i>Director of Library Resources</i>
Judy Hines .....	<i>Learning Resources Computer Lab Supervisor</i>
Micky Konold .....	<i>Director of Student and Public Outreach</i>
Brenda Quick .....	<i>Circulation Services Supervisor</i>
Tammy Stewart.....	<i>Associate Dean of Learning Resources &amp; Head Librarian</i>

### **Planning and Research**

Lindsey Farmer .....	<i>Dean of Planning and Research/SACSCOC Liaison</i>
Rebecca Graham .....	<i>Data Management Analyst</i>
TBA.....	<i>Research and Assessment Analyst</i>

### **Student Services Division**

Kellie Shoemake .....	<i>Vice President of Student Services</i>
Kimberly Aliago .....	<i>Admissions Associate</i>
Jean Blue .....	<i>Director of Records and Registration</i>
Sally Bowen .....	<i>Student Services Data Manager</i>
Christian Crumpton .....	<i>Admissions Associate</i>
Ellen Durkee .....	<i>Financial Aid Associate, Verification and Loans</i>
Dr. DJ Farmer .....	<i>Dean of Student Services</i>
Jennifer Fields.....	<i>Financial Aid Associate</i>
Laura Flynn.....	<i>Assistant Director of Records &amp; Registration</i>
Linda Fowler.....	<i>Records and Registration Associate</i>
Jonathan Garrison .....	<i>Coordinator of Work-Study, Scholarships, and Sandhills Promise</i>
Cary Greene .....	<i>Director of Admissions</i>
Tonelli Hackett .....	<i>Student Success Specialist</i>
Timothy Hunt .....	<i>Director of Personal Counseling Services</i>
April Ikner.....	<i>Admissions Associate</i>
Kathy Liles.....	<i>Placement Specialist</i>
Karen Manning .....	<i>Director of Marketing and Public Relations</i>
Rosa McAllister-McRae .....	<i>Director of Student Services Operations — Hoke County</i>
Brandi Phillips .....	<i>Student Life Associate</i>
Ryan Riggan .....	<i>Director of Recruiting</i>
Gwendolyn Russell .....	<i>Director of Career Development Services</i>
Davis Smith .....	<i>Director of Student Success</i>

SANDHILLS COMMUNITY COLLEGE

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Teresa Taylor ..... *Veterans Affairs Coordinator*  
Cynthia Thomas ..... *Assistant Director of Financial Aid*  
Shenika Ward ..... *Director of Student Life*

## COMPLIANCE STATEMENTS

Sandhills Community College is committed to the elimination of all discrimination based on race, color, national origin, religion, sex, age, sexual orientation, gender identity, or disability. While aware that the College bears a significant responsibility for aggressively pursuing an equal opportunity policy designed to ensure the employment of qualified men and women, Sandhills Community College is also firmly committed to day-by-day policies that ensure that students, faculty, and staff members of any race, color, national or ethnic origin, ancestry, age, religion or religious creed, disability or handicap, sex or gender, gender identity and/or expression (including a transgender identity), sexual orientation, military or veteran status, genetic information, or any other characteristic protected under applicable federal, state or local law will receive fair, courteous, and congenial treatment commensurate with the atmosphere of the College as a whole. Denial of such treatment to any individual on the Sandhills campus will not be tolerated.

In terms of hiring practices, the College has established policies and procedures to ensure that no person who is qualified shall be excluded from employment on the basis of any race, color, national or ethnic origin, ancestry, age, religion or religious creed, disability or handicap, sex or gender, gender identity and/or expression (including a transgender identity), sexual orientation, military or veteran status, genetic information, or any other characteristic protected under applicable federal, state or local law. In addition, Sandhills has established a college-wide outcome that states, "The diversity of Sandhills faculty and staff will reflect the respective diversity in the college service areas of Moore and Hoke Counties." Employees should at least be equal to their proportionate representation in the relevant labor markets for faculty, administrative, and non-academic staff positions. This outcome has been approved by the Trustees of the College. The President of the College shall oversee and monitor the use of this outcome assessment through the Associate Vice President of Human Resources in cooperation with the faculty and staff.

Equal employment opportunity is viewed as an integral part of the mission and purpose of Sandhills Community College. The College is dedicated to the upward mobility and advancement of all people within its reach and seeks to comply with all federal, state, and local statutes, regulations, and orders, including those that promote equal protection and equal opportunity for students, employees, and applicants.

It shall be the policy of Sandhills Community College to comply with all federal and state statutes that are pertinent to the operation of institutions of higher learning. These statutes include but are not limited to those listed on the following pages.

### **Civil Rights Act of 1964**

Sandhills Community College complies with the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, religion, sex, sexual orientation, gender identity, and national origin in programs and activities.

### **Age Discrimination in Employment Act of 1967**

Sandhills Community College complies with the Age Discrimination in Employment Act of 1967 (ADEA), which protects certain applicants and employees 40 years of age and older from discrimination on the basis of age in hiring, promotion, discharge, and compensation; or in the terms, conditions, and privileges of employment.

### **Age Discrimination Act of 1975**

Sandhills Community College complies with the Age Discrimination Act of 1975, which prohibits discrimination on the basis of age in programs and activities receiving federal financial assistance. The Act, which applies to all ages, permits the use of certain age distinctions and factors other than age that meet the Act's requirements.

### **Occupational Safety and Health Act of 1970**

Sandhills Community College complies with the Federal Occupational Safety and Health Act of 1970 (PL 91-596). The College shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to college policies developed for the purpose of implementation of the Act.

### **Hepatitis B Vaccine Policy**

Sandhills Community College complies with OSHA regulations requiring that college employees who may encounter occupational exposure to Hepatitis B through contact with blood and/or other bodily fluids be provided – at no cost– the Hepatitis B vaccine.

### **Title IX of the Educational Amendments of 1972**

Sandhills Community College complies with Title IX of the Educational Amendments of 1972, 20 U.S.C. § 1681 et seq. (“Title IX”), in assuring that no student or employee shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in any program or activity of the College. In accordance with the requirements of Title IX of the Educational Amendments of 1972, Sandhills Community College ensures equality of treatment and access for all students and employees, female or male. Complaints related to sex discrimination or sexual harassment should be filed either online through our

Incident Reporting Form (<http://www.sandhills.edu/incident-reporting/>) with the Associate Vice President of Human Resources or the Executive Vice President. The Associate Vice President of Human Resources, Wendy Dodson, located in Stone Hall, Office 110, is the designated Title IX Coordinator for Sandhills Community College. The department of Human Resources may be reach by email at [scchr@sandhills.edu](mailto:scchr@sandhills.edu) or by telephone at 910-246-2868.

### **Section 504 of the Rehabilitation Act of 1973**

Sandhills Community College provides equality of treatment and access for disabled students as required by Section 504 of the Rehabilitation Act of 1973, which guarantees protection of disabled persons against discrimination. Employees and students are expected to assist disabled students in ways that will facilitate their participation in campus life and their access to programs and activities.

### **Family Educational Rights and Privacy Act of 1974**

#### **Definition of the Law**

The Family Educational Rights and Privacy Act of 1974 (FERPA) protects the privacy and accessibility rights of eligible students enrolled in a postsecondary institution in relation to their education records.

- “Eligible student” is defined as a student 18 years of age or older, or a student who enters a postsecondary institution at any age.
- “Education record” is defined as those records that contain information directly related to the student and that are maintained by the educational institution.

#### **Specific FERPA Rights**

The law provides eligible students with specific rights under FERPA:

- The right to inspect and review information contained in their education records within 45 days after the institution receives the request.
- The right to challenge the contents of their education records, which are believed to be inaccurate, misleading, or in violation of the student’s privacy right under FERPA.
- The right to have a hearing if the outcome of the challenge is unsatisfactory.
- The right to submit explanatory statements for inclusion in their files if they feel that the decisions of the hearing panel are unacceptable.
- The right to file a complaint with the U.S. Department of Education (Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, DC, 20202) concerning alleged failures by the institution to comply with FERPA requirements.

- The right to provide written consent prior to the institution disclosing personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

**Limitations for Record Review**

Students may not inspect and review the following:

- Education records of other students, even if they are contained within the same record of the student requesting the review
- Financial information, including parental records
- Confidential letters and recommendations associated with admission, employment, or academic honors

**Directory Information**

FERPA permits the release of some general student information known as "directory information" without written approval of students.

Sandhills Community College considers the following directory information:

- The student's name
- City and county of residence
- Photograph
- Major field of study
- Participation in officially recognized activities and sports
- Dates of attendance
- Grade level
- Degrees, honors, and awards received
- The most recent educational agency or institution attended by the student
- Student email address

Students who do not want any or all of this information released to the general public must sign a request form in the Office of Records and Registration no later than two (2) weeks after the first day of class each semester.

**Third Parties Exempt from Consent Requirements**

The College does not provide access to or disclose a student's education records to third parties without the student's written consent except in cases of:

- Authorized personnel within the institution, including administrators, faculty, and staff members with legitimate educational interest seeking to fulfill their job responsibilities.
- Authorized officials of other institutions in which student seeks to enroll.
- Persons or organizations providing the student financial aid.
- Accrediting agencies carrying out their accreditation function.

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- Persons involved in an emergency situation in order to protect the health or safety of students or of other persons.
- Persons in compliance with a judicial order or lawfully issued subpoena.
- Federal, state and local authorities involved in the audit or evaluation of compliance with educational programs.
- Organizations conducting studies for or on behalf of the institution.
- Parents of a dependent student as defined by the IRS for tax purposes.
- Directory information being released
- An alleged victim of a violent crime or non-forcible sex offense, to whom the results of a disciplinary hearing may be disclosed.
- Parents of a student related to the student's violation of any Federal, State, local or institutional law or policy regarding the use or possession of alcohol or controlled substance if the student perpetrated a disciplinary violation, as determined by the institution, and the student is under that age of 21 years of age.

### **Personnel Contact Information**

- The Director of Records and Registration directs the procedures for students interested in inspecting or reviewing their education records and for student who do not want their directory information released by the institution.
- The Administrative Assistant to the Vice President of Student Services has been designated by the College to consider and coordinate inspection and review requests from third parties for students' educational records.
- The Administrative Assistant to the Vice President of Student Services oversees the process and maintains the records of FERPA release forms for eligible students.

### **Drug-Free Workplace Act and the Drug-Free Schools & Communities Act of 1988**

In accordance with the Drug-Free Workplace Act of 1998 and the Drug-Free Schools and Communities Act of 1989 (Public Law 101-226), as well as the Underage Drinking Laws and the laws of the state of North Carolina, the College has endorsed the following drug and alcohol policy.

The abuse and use of drugs and alcohol are subjects of immediate concern in our society. These problems are extremely complex and ones for which there are no easy solutions.

From a safety perspective, the users of drugs or alcohol may impair the well-being of all employees, students, and the public at large; drug and alcohol uses may also result in damage to college property. Therefore, it is the policy of



this College that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance or alcohol is prohibited while in the workplace, on college premises, or as part of any college-sponsored activities. Any employee or student violating this policy will be subject to disciplinary action up to and including termination or expulsion and referral for prosecution.

The specifics of this policy are as follows:

1. Sandhills Community College does not differentiate between drug users or sellers. Any employee\* or student who possesses, uses, sells, gives, or in any way transfers a controlled substance to another person or manufactures a controlled substance while in the workplace, on college premises, or as part of any college-sponsored activity will be subject to disciplinary action up to and including termination or expulsion and referral for prosecution.
2. The term “controlled substance” means any drug listed in 21 CFR PART-1308 and other federal regulations, as well as those listed in Article V, Chapter 90 of the North Carolina General Statutes. Generally, these are drugs that have a high potential for abuse. Such drugs include, but are not limited to, heroin, marijuana, cocaine, PCP, and “crack.” They also include “legal drugs” that are not prescribed by a licensed physician.
3. If any employee or student is convicted of violating any criminal drug statute while in the workplace, on college premises, or as part of any college-sponsored activity, he or she will be subject to disciplinary action up to and including termination or expulsion. Alternatively, the College may require the employee or student to successfully finish a drug abuse program sponsored by an approved private or governmental institution as a precondition for continued employment or enrollment at the College.
4. Each employee or student is required to inform the College, in writing, within five (5) days after he or she is convicted for violation of any federal, state, or local criminal drug statute wherein such violation occurred while in the workplace, on college premises, or as part of any college-sponsored activity. A conviction means a finding of guilt (including a plea of *nolo contendere*) or the imposition of a sentence by a judge or jury in any federal or state court. Students may lose federal student aid eligibility as a result of drug violations. The institution must provide notice describing the ways in which the student can regain eligibility.
5. Convictions of employees working under federal grants, for violating drug laws in the workplace, on college premises, or as part of any college-sponsored activity shall be reported to the appropriate federal agency. The Associate Vice President of Human Resources must notify the U. S. government agency with which the grant was made within ten (10) days after receiving notice from the employee or

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## COMPLIANCE STATEMENTS

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otherwise receives actual notice of a violation of a criminal drug statute occurring in the workplace. The College shall take appropriate disciplinary action within 30 calendar days from receipt of notice. As a condition of further employment on any federal government grant, the law requires all employees to abide by this policy.

6. Any employee or student who unlawfully possesses, uses, sells, or transfers alcoholic beverages to another person while in the workplace, on college premises, or as part of any college-sponsored activity will be subject to disciplinary action up to and including termination or expulsion and referral for prosecution.
7. If an employee or student is convicted of violating any alcoholic beverage control statute while in the workplace, on college premises, or as part of any college-sponsored activity, he or she will be subject to disciplinary action up to and including termination or expulsion. Alternatively, the College may require the employee or student to complete successfully an alcoholic rehabilitation program sponsored by an approved private or governmental institution as a precondition for continued employment or enrollment at the College.
8. The term “alcoholic beverage” includes beer, wine, whiskey, and any other beverage listed in Chapter 18B of the General Statutes of North Carolina.
9. Each employee or student is required to inform the College, in writing, within five (5) days after he or she is convicted of any alcoholic beverage control statute where such violation occurred while in the workplace, on college premises, or as part of any college-sponsored activity.

\*Students employed under the College Work Study Program are considered to be employees of the College if the work is performed for the College in which the student is enrolled. For work performed for a federal, state, local public agency, a private non-profit or a private for-profit agency, students are considered to be employees of the College unless the agreement between the College and the organization specifies that the organization is considered to be the employer.

**Educational Programs & Activities:** The College provides a variety of opportunities for students to learn more about the dangers of alcohol and drug abuse.

1. Annual written notification during registration informing every student of the college policy concerning alcohol and substance abuse.
2. A variety of special events, speakers, workshops, and programs that address current issues as related to alcohol and substance abuse.
3. Academic courses in health, physical education, and wellness.
4. Academic courses in drug abuse prevention, chemical dependency, and family therapy.
5. Academic courses in student success.

**Counseling Provisions:** In addition to providing counseling for students with alcohol/drug-related problems by members of the counseling staff of the Student Services Division, the College also provides the following assistance to those with abuse issues.

- Referral resource for students requiring long-term counseling or hospitalization
- Schedules for area meetings of AA, NA, Al-Anon support groups
- Schedule AA meeting on campus upon request
- Materials for dissemination on related topics

### **Student Right-to-Know, the Campus Crime and Security Act, and the Jeanne Clery Act**

Sandhills Community College fully complies with the disclosure and reporting requirements of the Student Right-to-Know, the Campus Crime and Security Act of 1990, and the Jeanne Clery Act, 1990, amended 1992, 1998, and 2000. These requirements include graduation or completion rates, campus security policies and procedures, and statistical reports on security matters. The Jeanne Clery Act expands on the security requirements and affords victims of campus sexual assault certain basic rights. SCC stands in full compliance with this Act.

The SCC sexual assault policy is detailed in the Sandhills Community College *Catalog* and in the *Policy and Procedures Manual*. It is also published online at [www.sandhills.edu](http://www.sandhills.edu). Further information or copies of this policy can be obtained by calling 910-692-6185.

The College endeavors to provide an environment that is safe for all students, faculty, staff, and visitors. Under the reporting provisions of the Student Right-to-Know, the Campus Crime and Security Act, and the Clery Act, the College is required to provide information about serious crimes on campus, as defined by the Act, that have occurred within the last three years. A full copy of the college's annual report on this subject is available free of charge to all students, potential students, and other interested parties. Those interested are invited to call the College at 910-692-6185. The full annual security report is also published online at [www.sandhills.edu](http://www.sandhills.edu).

### **Violence Against Women Act and the Sexual Violence Elimination (SaVE) Act**

The College complies with the Violence Against Women Act (1994; Renewed 2013) and the SAVE Act in providing campus awareness of these acts. "SaVE requires that incidents of domestic violence, dating violence, sexual assault, and stalking be disclosed in annual campus crime statistic reports.

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## COMPLIANCE STATEMENTS

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Additionally, students or employees reporting victimization will be provided with their written rights to:

- Be assisted by campus authorities if reporting a crime to law enforcement;
- Change academic, living, transportation, or working situations to avoid a hostile environment;
- Obtain or enforce a no contact directive or restraining order;
- Have a clear description of their institution’s disciplinary process and know the range of possible sanctions;
- Receive contact information about existing counseling, health, mental health, victim advocacy, legal assistance, and other services available both on-campus and in the community.”

Students may reference information about sexual violence at <http://www.sandhills.edu/safety-security/what-is-sexual-assault/>.

### **IPEDS Graduation Rate**

To determine its graduation rate, Sandhills Community College used the Federal cohort of students who entered fall 2015 as first-time diploma or degree-seeking full-time students and who graduated by August 2018. This graduation rate was 21%.

This rate is comparable with those of other community colleges. Students enrolled in community colleges often take several years to complete a degree as they balance studies with employment and other activities. Some choose to transfer instead of completing a degree. Sandhills does not collect transfer-out data.

### **Americans with Disabilities Act (ADA)**

Sandhills Community College seeks to comply fully with the Americans with Disabilities Act (ADA), enacted July 26, 1991, as an extension of the Civil Rights Act of 1964 to the disabled and as amended in 2009 and 2011. The College is committed to removal of physical barriers, psychological barriers, and policies or procedures that hinder full access to enrollment or employment opportunities.

The Office of Disability Services also manages services for disabled students. Responsibilities of this office include advising the administration concerning academic barriers and the adequacy of policies and procedures for protecting and providing access for disabled students and prospective students, planning and developing training for ADA awareness concerning accommodations for the disabled, and providing suggestions for “reasonable accommodations” to faculty and staff members.

The College expects that all students and employees will be aware of, and sensitive to, the needs of persons with disabilities and that the administration and staff will make every effort to make those “reasonable accommodations” that permit disabled persons to participate in the various programs and services offered by the College.

### **Procedure for Complaints of Discrimination**

In accordance with Federal and State Guidelines, any staff member or student who believes that a Sandhills Community College employee has discriminated against him/her on the basis of gender, gender identity, genetic information, or disability, thus violating Title IX of the Education Amendment Act of 1972 including the SaVE Act, which is an amendment to the Cleary Act regarding sexual assault and other intimate partner violence, Title VII of the 1964 Civil Rights Act (race, color, national origin), The Pregnancy Discrimination Act, The Age Discrimination in Employment Act of 1967 (ADEA), Title I of the Americans with Disabilities Act of 1990 (ADA) , Sections 501 and 505 of the Rehabilitation Act of 1973 (disability), and The Genetic Information Nondiscrimination Act of 2008 (GINA) may file a complaint.

Complainants should be made through our online Incident Reporting Form (<http://www.sandhills.edu/incident-reporting/>) or to the Associate Vice President of Human Resources, who is the designated Title IX Coordinator, at (910)246-2868 or at [scchr@sandhills.edu](mailto:scchr@sandhills.edu). The title IX policy and procedures is located at [www.sandhills.edu/title-ix/](http://www.sandhills.edu/title-ix/).

### **Constitution and Citizenship Day**

On September 17 of each year (or at the first opportunity should that date fall on a weekend), Sandhills Community College commemorates the September 17, 1787, signing of the United States Constitution by holding a variety of educational programs for students, faculty and staff. This Congressional initiative is authorized by Section 111 of Division J of Pub. L. 108-447, the Consolidated Appropriations Act, 2005, “Dec. 8, 2004.”

### **Public Complaints**

In accordance with its *Policies and Procedures Manual*, Sandhills Community College offers a range of policies and procedures to address both student and public complaints.

- The Student Grievance Policy.
- The Student Grievance Procedure,
- The Mission Statement commitment to public satisfaction with the practices of the institution, and
- The associated Public Complaint Policy.

## Procedure for Responding to Public Complaints

Sandhills Community College recognizes its obligation as a tax-supported member of the North Carolina Community College System (NCCCS) to provide the public the opportunity to direct both informal and formal complaints related to its adherence to its core values and its mission. To that end, the College has established the following procedure for addressing such complaints:

1. When a member of the public wishes to address an informal or formal complaint, that person should contact the Associate Vice President of Human Resources, who will gather information as necessary and convene the appropriate dean or administrator from that area of the college to which the complaint is linked.
2. When possible, the Associate Vice President of Human Resources will convene the concerned parties to reach an informal resolution to the complaint. If an informal resolution cannot be reached, complainant will be apprised of his or her right to initiate a formal complaint.
3. The member of the public will draft and submit a letter to the Associate Vice President of Human Resources detailing the nature of the complaint. In instances in which the complaint is related to Human Resources, the letter should be submitted to the Executive Vice President.
4. The Associate Vice President of Human Resources will submit a written response to the complainant acknowledging receipt of that complaint and will provide a copy of the complaint and the written response to the academic or administrative officer under whose purview the complaint is directed.
5. In such cases, the administrative officer will gather information and provide a written response to the complainant within one week of receiving the complaint, addressing the issue and, where applicable, offering reasonable resolution to the complaint.
6. If the complainant is not satisfied with the response, the complainant may file a written complaint with the President. In such cases, the President will gather information and provide a final written response to the complainant.

Individuals are strongly encouraged to make every attempt to resolve matters through the aforementioned administrative processes. However, when matters cannot be resolved through these, the student or member of the public has these avenues of further recourse:

- For complaints associated with the institution's compliance with academic program quality, fulfillment of its mission, or adherence to accrediting standards, individuals should complete the Student Complaint Form (NCCCS) found at

[www.sandhills.edu/about/general/](http://www.sandhills.edu/about/general/) and send it to NCCCS per directions in the text of the form.

- For issues related to specific compliance with the *Principles of Accreditation*, individuals should compose written evidence that all remedies available at the institution have been exhausted and then submit that evidence with the *SACSCOC Complaint Form* to the Southern Association of Colleges and Schools Commission on Colleges as directed in the front of the college *Catalog* and online at [www.sandhills.edu](http://www.sandhills.edu). The Commission should be contacted only if there is evidence that appears to support SCC's non-compliance with a SACSCOC requirement or standard.
- Residents outside the state of North Carolina enrolled in online courses from SCC who wish to resolve a grievance should first follow the college's student grievance procedure outlined in the college *Catalog*. If the complaint is still not satisfactorily resolved, the final step would be for the student to file a complaint with his or home state.

Each year, Sandhills Community College (Institution #199364) files an annual report via survey in accordance with the federal government's Equity in Athletic Disclosure Act (outlined below):

### **Equity in Athletics Disclosure Act (EADA) Survey**

The *2014 Equity in Athletics Disclosure Act* is designed to make prospective students aware of a school's commitment to providing equitable athletic opportunities for its men and women students. Any co-educational institution of higher education that participates in a federal student aid program must prepare an EADA report by October 15. Institutions must also report data to the U.S. Department of Education via this online survey. This is a mandatory survey.

Data collected in this survey will be published by the Office of Postsecondary Education on the Equity in Athletics *Data Analysis Cutting Tool* website located at <http://ope.ed.gov/athletics>.

### **EADA and Title IX Compliance**

The data collected in this survey are provided by institutions in accordance with the EADA and may not be the same as data used for determining compliance with other Federal or state laws, including Title IX of the Education Amendments of 1972.

The compiled data for the most recent academic term is posted on the SCC website so that students and the public have access to this information related to SCC compliance; it is updated prior to October 1<sup>st</sup> each year.

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