

# PreCollege (Developmental Education) Course Descriptions

The precollege (Developmental Education) courses are designed to increase students' likelihood of success by remedying deficiencies in English, reading, and math.

## Course Numbers

Course numbers appear before the course titles. Courses numbered with a 0 as the first digit are precollege and cannot be applied toward a degree, diploma, or certificate.

## Course Credits

Course credits are provided after the course titles.

## Course Hours

The number of lecture, laboratory, clinical and work experience hours is shown at the end of each course title. The total number of lecture, laboratory, clinical and work experience hours is referred to as "contact hours" since it reflects the time spent each week under the supervision of a faculty member.

## Prerequisites and Corequisites

Prerequisites are identified after the course description and must be met prior to enrollment in a course. If a corequisite is identified, it means the two courses may be taken at the same time.

## Course Descriptions

Course Prefix and Number	Course Title	Class Hrs.	Lab Hrs.	Clinical Hrs.	Work Exp.	Credit Hrs.
DRE 096	Integrated Reading and Writing	2.5	1	0	0	3

Minimum State Prerequisites: None

Minimum State Corequisites: None

Local Prerequisites: Appropriate placement scores or

This course develops proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are primarily taught at the introductory level using texts primarily in a Lexile range of 860 to 1010. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs.

College Transfer: N/A

National ID (CIP): 32.0108 Developmental/Remedial English.

## PreCollege (Developmental Education) Program

The PreCollege Program is designed to prepare students for college-level coursework by developing their reading, writing, and mathematics skills required for entry into their curriculum courses. Any person who has a high school

diploma or a GED may enroll in precollege courses. The number of courses needed and, consequently, the length of time required to complete the courses will vary. Some students may need only one course while other students may take several semesters to complete a series of courses. Depending on their individual circumstances and with the approval of their academic advisor, students may take a combination of precollege and regular curriculum courses during the same term. Precollege courses are offered every term, both day and evening.

## Placement

Students are placed in precollege courses on the basis of test scores, high school transcripts, recommendation of their advisor or curriculum instructor, or voluntary selection of courses. Once students are assigned to the appropriate courses and levels, students must adhere to the exit criteria for precollege courses. Students who do not meet minimum placement scores are referred to College and Career Readiness.

### ***Attention Veterans:***

According to the Code of Federal Regulations, remedial courses may not be certified for payment if they are offered as independent study, distance/online learning, or hybrid course delivery. Each semester, Robeson Community College offers a selected number of remedial courses that a veteran student may enroll in that meets the eligibility requirements for payment. For more information, check with the Counseling and Career Services Office.

## Exit Criteria for All Precollege (Developmental Education) Courses

A student taking required precollege courses must earn a grade of “P” in order to progress to the curriculum course or to the next precollege course level. A grade of “R” requires the student to repeat the course. NOTE: Developmental math and developmental reading and English courses are not eligible for a grade of Incomplete (I).

Students enrolled in a precollege course will not earn traditional letter grades (A, B, C, D or F). Grades for all precollege courses will be “P” (Pass) or “R” (Re-enroll).

A grade of “P” is given when a student has reached a minimal level of proficiency for the course. For all precollege courses, if a student demonstrates mastery, a grade of “P” will be awarded. The “P” grade is not included in the computation of the GPA. However, for financial aid purposes, a grade of “P” means that a student has made satisfactory academic progress.

A grade of “R” is given when a student has not demonstrated mastery and will have to re-enroll in the precollege course. The “R” grade is considered a non-punitive grade and is not included in the computation of the GPA. However, for financial aid purposes, a grade of “R” means that a student has not made satisfactory academic progress. Financial aid will be affected by a grade of “R”.

For all precollege Chemistry (CHM-090) and Developmental Reading and English (DRE) courses, mastery is defined as a final course average of 80 or higher. For all precollege mathematics shell courses (DMS), mastery is defined as a grade of 80 or higher on each scheduled module final assessment.

<b>Grade Per Credit Hour</b>	<b>Explanation</b>	<b>Grade Points</b>
P	Pass	2.5
<b>R</b>	Re-enroll	0 (Satisfactory Academic Progress)
<b>W</b>	Withdrew (Prior to the 60% point of the semester)	0 (Unsatisfactory Academic Progress)
<b>WF</b>	Withdrew Failing (After the 60% point of the semester)	0 (Unsatisfactory Academic Progress and Computes as a grade of "F" for GPA)

\* DMS and DRE courses are not eligible for a grade of Incomplete.

## Class Attendance

In order to receive credit for a precollege course, the student must attend at least 85% of the required contact hours. If the student misses hours in excess of 15%, the student will be dropped from the course by the instructor. In no case will a student receive credit for a course if he/she has missed in excess of 15% of the required contact hours. The grade provided will follow the guidelines outlined in the RCC Drop/Add Policy. Regardless of when a student registers, absences are calculated beginning with the first scheduled class. Based on contact hours, the number of hours that may be missed for a precollege course is outlined below:

### Precollege Courses (Developmental Education)

Course Prefix and Number	Course Title	Contact Hours	Credit Hours	15%
CHM-090	Chemistry Concepts	64	4	9.6
DRE-096	Integrated Reading and Writing	56	3	8.4
DRE-097	Integrated Reading and Writing II	56	3	8.4
DRE-098	Integrated Reading and Writing III	56	3	8.4
DMS-003	Developmental Math Shell	60	3	9
DMS-002	Developmental Math Shell	40	2	6
DMS-001	Developmental Math Shell	20	1	3
DMA-065	Algebra for Precalculus	60	2	6
MAT-050	Basic Math Skills	80	4	12

### Precollege Courses (Developmental Education) Breakdown

Course Prefix and Number	Course Title	Class Hrs.	Lab Hrs.	Clinical Hrs.	Work Exp.	Credit Hrs.
CHM-090	Chemistry Concepts	4	0	0	0	4
DRE-096	Integrated Reading and Writing	2.5	1	0	0	3
DRE-097	Integrated Reading and Writing II	2.5	1	0	0	3
DRE-098	Integrated Reading and Writing III	2.5	1	0	0	3
DMS-003	Developmental Math Shell	2.5	1.5	0	0	3
DMS-002	Developmental Math Shell	1.5	1	0	0	2
DMS-001	Developmental Math Shell	0.75	0.5	0	0	1
DMA-065	Algebra for Precalculus	1.5	1	0	0	2
MAT-050	Basic Math Skills	3	2	0	0	4

## Developmental Reading and English Courses

DRE 096, 097, and 098 are offered in 8 week (mini) sessions.

Students will be scheduled to meet face-to-face and complete required assignments in the learning management system (Moodle) and publisher's learning platform (MyLabsPlus). It is strongly suggested that students have their own laptop/computer with Internet access in order to be successful. Upon successful completion of DRE 096, 097, and 098 with a grade of "P", students will have met the prerequisite for the first curriculum English course.

## Developmental Mathematics (DMS) Shell Courses

The DMS shell is a course and students complete DMA modules within a DMS shell course. DMS-003 and DMS-002 are offered in 16 week sessions. DMS-001 is offered in 8 sessions. Students are scheduled to meet face-to-face

and complete required online activities using MyLabsPlus. Precollege mathematics utilizes the modularization concept. Students who demonstrate mastery of a module will advance to the next module, allowing them to work at a flexible pace.

The last number of the course indicates the credit hour, and the number of modules a student must successfully complete in order to receive a grade of “P”. Upon successful completion of selected DMS courses with a grade of “P”, students will have met the prerequisite for the first curriculum mathematics, chemistry, and/or economics courses.

DMS-003 - Students must successfully complete 3 DMA modules to receive a grade of “P”.

DMS-002 - Students must successfully complete 2 DMA modules to receive a grade of “P”.

DMA-001 – Students must successfully complete 1 DMA module to receive a grade of “P”.

The three (3) versions of the DMS shell courses are listed in the table below:

<b>Course Prefix and Number</b>	<b>Credit Hrs.</b>	<b>Scheduled</b>	<b>Purpose</b>
DMS-001	1	8 Weeks	Holds any one DMA
DMS-002	2	16 Weeks	Holds any Two DMAs
DMS-003	3	16 Weeks	Holds any Three DMAs

### MAT-050 Basic Math Skills

In some cases, students may not meet the minimum NC DAP scores to place into the DMA modules. If a student scores 0 or 1 on the NC DAP for DMA 010 and does not score 7 or higher on any other module, the student is required to register and successfully complete MAT-050 prior to enrolling into a Developmental Math Shell course. In order to successfully pass MAT-050, a student must earn a grade of “80” or higher and score “2” or higher on their retest of DMA 010 on the NC DAP.

### DMA-065 Algebra for Precalculus

Students who do not place out of DMA-060 on the NC DAP and whose curriculum math is MAT-171, are required to enroll in DMA-065.

### Precollege Chemistry Course

CHM-090 Chemistry Concepts is the prerequisite for students who do not have credit for high school chemistry. Students may be required to complete activities using the learning management system Moodle and the textbook publisher’s learning platform (MyLabsPlus).

**CHM-090 Chemistry Concepts 4 0 0 0 4***Minimum State Prerequisites: None**Minimum State Corequisites: None*

This course provides a non-laboratory based introduction to basic concepts of chemistry. Topics include measurements, matter, energy, atomic theory, bonding, molecular structure, nomenclature, balancing equations, stoichiometry, solutions, acids and bases, gases, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts necessary for success in college-level science courses.

*College Transfer: N/A***DMS 001 Developmental .75 .50 0 0 1****Math Shell 1***Minimum State Prerequisites: None**Minimum State Corequisites: None**Local Prerequisites: None*

This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be one DMA module appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content. Colleges should use a local letter suffix to identify enrollment in another DMS shell with one semester hour credit composed of a different DMA module.

*College Transfer: N/A***DMS-002 Developmental 1.5 1 0 0 2****Math Shell 2***Minimum State Prerequisites: None**Minimum State Corequisites: None**Local Prerequisites: None*

This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be two DMA modules appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content. Colleges should use a local letter suffix to identify enrollment in another DMS shell with two semester hour credits composed of different DMA modules

*College Transfer: N/A***DMS-003 Developmental 2.25 1.5 0 0 3****Math Shell 3***Minimum State Prerequisites: None**Minimum State Requisites: None**Local Prerequisites: None*

This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be three DMA modules appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content. Colleges should use a local letter suffix to identify enrollment in another DMS shell with three semester hour credits composed of different DMA modules.

*College Transfer: N/A***DMA-010 Operations with Integers 0.75 0.50 0 0 1***Minimum State Prerequisites: None**Minimum State Corequisites: None**Local Prerequisites: Appropriate placement exam scores*

This course provides a conceptual study of integers and integer operations. Topics include integers, absolute value, exponents, square roots, perimeter and area of basic geometric figures, Pythagorean theorem, and use of the correct order of operations. Upon completion, students should be able to demonstrate an understanding of pertinent concepts and principles and apply this knowledge in the evaluation of expressions.

*College Transfer: N/A***DMA-020 Fractions and Decimals 0.75 0.50 0 0 1***Minimum State Prerequisites: Take DMA-010**State Corequisites: None**Local Prerequisites: None*

This course provides a conceptual study of the relationship between fractions and decimals and covers related problems. Topics include application of operations and solving contextual application problems, including determining the circumference and area of circles with the concept of pi. Upon completion, students should be able to demonstrate an understanding of the connections between fractions and decimals.

*College Transfer: N/A*

**DMA-030 Proportion/Ratio/  
Rate/Percent**                    **0.75 0.50 0 0 1**

*Minimum State Prerequisites: Take All: DMA-010 and DMA-020*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides a conceptual study of the problems that are represented by rates, ratios, percent, and proportions. Topics include rates, ratios, percent, proportion, conversion of English and metric units, and applications of the geometry of similar triangles. Upon completion, students should be able to use their understanding to solve conceptual application problems.

*College Transfer: N/A*

**DMA-040 Expressions/  
Linear Equations and Inequalities**                    **0.75 0.50 0 0 1**

*Minimum State Prerequisites: Take All: DMA-010, DMA-020 and DMA-030*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides a conceptual study of problems involving linear expressions, equations, and inequalities. Emphasis is placed on solving contextual application problems. Upon completion, students should be able to distinguish between simplifying expressions and solving equations and apply this knowledge to problems involving linear expressions, equations, and inequalities.

*College Transfer: N/A*

**DMA-050 Graphs/  
Equations of Lines**                    **0.75 0.50 0 0 1**

*Minimum State Prerequisites: Take All: DMA-010, DMA-020, DMA-030 and DMA-040*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides a conceptual study of problems involving graphic and algebraic representations of lines. Topics include slope, equations of lines, interpretation of basic graphs, and linear modeling. Upon completion, students should be able to solve contextual application problems and represent real-world situations as linear equations in two variables.

*College Transfer: N/A*

**DMA-065 Algebra for  
Precalculus**                    **1.50 1.00 0 0 2**

*Minimum State Prerequisites Take All: DMA-010 DMA020 DMA-030 DMA-040 and DMA-050*

*Local Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides a study of problems involving algebraic representations of quadratic, rational, and radical equations. Topics include simplifying polynomial, rational, and radical expressions and solving quadratic, rational, and radical equations. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic and rational applications.

*College Transfer: N/A*

**DRE-096 Integrated Reading  
and Writing**                    **2.50 1 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Appropriate placement scores*

This course develops proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are primarily taught at the introductory level using texts primarily in a Lexile range of 960 to 1115. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs.

*College Transfer: N/A*

**DRE-097 Integrated Reading  
and Writing II**                    **2.50 1 0 0 3**

*Minimum State Prerequisites: TAKE DRE-096*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course develops proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught at a reinforcement level using texts primarily in a Lexile® range of 1070 to 1220. Upon completion, students should be able to demonstrate and apply those skills toward understanding a variety of complex academic and career texts and composing essays incorporating relevant, valid evidence.

*College Transfer: N/A*

**DRE-098 Integrated Reading and Writing III 2.50 1 0 0 3**

*Minimum State Prerequisites: TAKE DRE-097*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course develops proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught using texts primarily in the Lexile® range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay.

*College Transfer: N/A*

**MAT-050 Basic Math Skills 3 2 0 0 4**

*Minimum State Prerequisite: None*

*Minimum State Corequisite: None*

*Local Prerequisite: None*

*Local Corequisite: None*

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing whole numbers, fractions, and decimals. Upon completion, students should be able to perform basic computations and solve relevant mathematical problems.

*College Transfer: N/A*

# Curriculum Course Descriptions

## Course Descriptions

A course description is a short, succinct statement that informs a student about the subject matter content.

## Course Numbers

Course numbers appear before the course titles. Courses numbered with a zero (0) as the first digit are precollege (developmental) and cannot be applied toward a degree, diploma or certificate.

## Course Credits

Course credits are provided after the course titles.

## Course Hours

The number of lecture, laboratory, clinical and work experience hours is shown at the end of each course title. The total number of lecture, laboratory, clinical and work experience hours is referred to as “contact hours” since it reflects the time spent each week under the supervision of a faculty member.

## Prerequisites and Corequisites

Prerequisites are identified after the course description and must be met prior to enrollment in a course. If a corequisite is identified, it means the two courses may be taken at the same time.

### Course Descriptions

Course Prefix and Number	Course Title	Class Hrs.	Lab Hrs.	Clinical Hrs.	Work Exp.	Credit Hrs.
ELC -114	Commercial Wiring	2	6	0	0	4

Minimum State Prerequisites: None

Minimum State Corequisites: None

Local Prerequisites: ELC-113

This course provides instruction in the application of electrical tools, materials, and test equipment associated with commercial electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with commercial electrical installations.

College Transfer: N/A



**ACA-111 College Student Success 1 0 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives.

*College Transfer: N/A*

**ACA-122 College Transfer Success 0 2 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**ACC-120 Prin of Financial Accounting 3 2 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course introduces business decision-making using 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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**ACC-121 Prin of Managerial Accounting 3 2 0 0 4**

*Minimum State Prerequisites: Take ACC-120*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**ACC-131 Federal Income Taxes 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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 uses of technology for the preparation of individual and business tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

*College Transfer: N/A*

**ACC-132 NC Business Taxes 2 0 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the relevant laws governing North Carolina taxes as they apply to business. Topics include sales taxes, income taxes for business entities, payroll taxes, unemployment taxes, and other taxes pertaining to the State of North Carolina. Upon completion, students should be able to maintain a company's records to comply with the laws governing North Carolina business taxes.

*College Transfer: N/A*

**ACC-140 Payroll Accounting 1 2 0 0 2**

*Minimum State Prerequisites: Take ACC-120*

*Minimum State Corequisites: None*

*Local Prerequisites: 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 account entries using appropriate technology.

*College Transfer: N/A*

**ACC-150 Accounting Software Apps 1 2 0 0 2**

*Minimum State Prerequisites: Take One: ACC-115 or ACC-120*

*Minimum State Corequisites: None*

*Local Prerequisites: 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 solve accounting problems.

*College Transfer: N/A*

**ACC-152 Advanced Software Apps 1 2 0 0 2**

*Minimum State Prerequisites: Take ACC-150*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides continued exposure to commercial accounting software and the opportunity to refine skills developed in ACC 150. Emphasis is placed on advanced applications of software packages. Upon completion, students should be able to use commercial software to complete complex accounting tasks.

*College Transfer: N/A*

**ACC-180 Practices in Bookkeeping 3 0 0 0 3**

*Minimum State Prerequisites: Take ACC-120*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**ACC-220 Intermediate Accounting 3 2 0 0 4**

*Minimum State Prerequisites: Take ACC-120*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**ACC-240 Gov & Not-For-Profit Acctng 3 0 0 0 3**

*Minimum State Prerequisites: Take ACC-120*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces principles and procedures to governmental and not-for-profit organizations. Emphasis is placed on various budgetary accounting procedures and fund accounting. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

*College Transfer: N/A*

**AHR-110 Intro to Refrigeration 2 6 0 0 5**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

*College Transfer: N/A*

**AHR-111 HVACR Electricity 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams.

*College Transfer: N/A*

**AHR-112 Heating Technology 2 4 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system.

*College Transfer: N/A*

**AHR-113 Comfort Cooling** 2 4 0 0 4  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: AHR-110*  
This course covers the installation procedures, system operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychometrics, manufacturer specifications, and test instruments to determine proper system operation.  
*College Transfer: N/A*

**AHR-114 Heat Pump Technology** 2 4 0 0 4  
*Minimum State Prerequisites: Take One: AHR-110 or AHR-113*  
*Minimum State Corequisites: None*  
*Local Prerequisites: None*  
This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures.  
*College Transfer: N/A*

**AHR-120 HVACR Maintenance** 1 3 0 0 2  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: None*  
This course introduces the basic principles of industrial air conditioning and heating systems. Emphasis is placed on preventive maintenance procedures for heating and cooling equipment and related components. Upon completion, students should be able to perform routine preventive maintenance tasks, maintain records, and assist in routine equipment repairs.  
*College Transfer: N/A*

**AHR-130 HVAC Controls** 2 2 0 0 3  
*Minimum State Prerequisites: Take One: AHR-111 or ELC-111*  
*Minimum State Corequisites: None*  
*Local Prerequisites: None*  
This course covers the types of controls found in residential and commercial comfort systems. Topics include electrical and electronic controls, control schematics and diagrams, test instruments, and analysis and troubleshooting of electrical systems. Upon completion, students should be able to diagnose and repair common residential and commercial comfort system controls.  
*College Transfer: N/A*

**AHR-133 HVAC Servicing** 2 6 0 0 4  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: Take One: AHR-112 or AHR-113*  
*Local Prerequisites: None*  
The course covers the maintenance and servicing of HVAC equipment. Topics include testing, adjusting, maintaining, and troubleshooting HVAC equipment and record keeping. Upon completion, students should be able to adjust, maintain, and service HVAC equipment.  
*College Transfer: N/A*

**AHR-140 All-Weather Systems** 1 3 0 0 2  
*Minimum State Prerequisites: Take One: AHR-112 or AHR-113*  
*Minimum State Corequisites: None*  
*Local Prerequisites: None*  
This course covers the principles of combination heating and cooling systems including gas-electric, all-electric, and oil-electric systems. Topics include PTAC's and package and split-system units. Upon completion, students should be able to understand systems performance and perform routine maintenance procedures.  
*College Transfer: N/A*

**AHR-151 HVAC Duct Systems I** 1 3 0 0 2  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: None*  
This course introduces the techniques used to lay out and fabricate duct work commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate duct work. Upon completion, students should be able to lay out and fabricate simple duct work.  
*College Transfer: N/A*

**ART-111 Art Appreciation** 3 0 0 0 3  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: DRE-097*  
This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media.  
*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.*  
*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.*

**ATR-280 Robotic Fundamentals 3 2 0 0 4**

*State Prerequisites: None*

*State Corequisites: None*

*Local Prerequisites: ELC-117 and ELC-128*

*Local Corequisite: None*

This course covers application, programming, and maintenance fundamentals for robotic devices. Emphasis is placed on terminology, problem solving, robotic systems controls, and hands-on projects. Upon completion, students should be able to apply basic concepts in application, programming, and robotic control systems. *College Transfer: N/A*

**AST-151 General Astronomy I 3 0 0 0 3**

*State Prerequisites: None*

*State Corequisites: None*

*Local Prerequisites: DRE 097*

*Local Corequisite: Take 151A*

This course introduces the science of modern astronomy with a concentration on the solar system. Emphasis is placed on the history and physics of astronomy and an introduction to the solar system, including the planets, comets, and meteors. Upon completion, students should be able to demonstrate a general understanding of the solar system.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**AST-151A General Astronomy I Lab 0 2 0 0 1**

*State Prerequisites: None*

*State Corequisites: Take AST 151*

*Local Prerequisites: None*

*Local Corequisite: None*

The course is a laboratory to accompany AST 151. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 151 and which provide practical experience. Upon completion, students should be able to demonstrate a general understanding of the solar system.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**BIO-111 General Biology I 3 3 0 0 4**

*State Prerequisites: None*

*State Corequisites: None*

*Local Prerequisites: DRE 097*

*Local 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 transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**BIO-112 General Biology II 3 3 0 0 4**

*State Prerequisites: Take BIO 111*

*State Corequisites: None*

*Local Prerequisites: None*

*Local Corequisite: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**BIO-120 Introductory Botany 3 3 0 0 4**

*Minimum State Prerequisites: Take One: BIO-110 or BIO-111*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science.*

*This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

**BIO-130 Introductory Zoology 3 3 0 0 4**

*Minimum State Prerequisites: Take One: BIO-110 or BIO-111*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science.*

*This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

**BIO-163 Basic Anatomy & Physiology 4 2 0 0 5**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**BIO-168 Anatomy and Physiology I 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, nervous, special senses, and endocrine systems. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**BIO-169 Anatomy and Physiology II 3 3 0 0 4**

*Minimum State Prerequisites: Take BIO-168*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**BIO-275 Microbiology 3 3 0 0 4**

*Minimum State Prerequisites: Take One: BIO-110, BIO-111, BIO-163, BIO-165, or BIO-168*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**BPA-150 Artisan and Specialty Breads 1 6 0 0 4**

*State Prerequisites: Take All: CUL-110 and CUL-160*

*State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**BPA-210 Cake Design & Decorating 1 4 0 0 3**

*State Prerequisites: Take All: CUL-110 and CUL-160*

*State Corequisites: None*

*Local Prerequisites: 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 advanced piping skills. Upon completion, students should be able to design, create, finish and evaluate the quality of wedding and specialty cakes.

*College Transfer: N/A*

**BPA-250 Dessert/Bread Production 1 8 0 0 5**

*State Prerequisites: Take BPA-150*

*State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**BPA-260 Pastry & Baking Marketing 2 2 0 0 3**

*State Prerequisites: Take All: BPA-150 and BPA-210*

*State Corequisites: Take BPA-250*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**BPR-111 Print Reading 1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**BPR-115 ELC/Fluid Power Diagrams 1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**BPR-130 Print Reading-Construction 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers the 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.

*College Transfer: N/A*

**BUS-110 Introduction to Business 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*Competencies- Student Learning Outcomes*

1. Identify various forms of business organizations.
2. Define business vocabulary.
3. Describe the basics of business ethics.
4. Explain basic management principles. *College*

*Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**BUS-115 Business Law I 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course introduces the ethics and legal framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are explained.

**(Continued on next page.)**

**BUS-115(continued)**

Upon completion, students should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them.

*Competencies - Student Learning Outcomes*

1. Identify the elements of a contract
2. Describe the structure of the U.S. court system
3. Identify laws, conditions and regulations in national and international work environments.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**BUS-121 Business Math 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**BUS-137 Principles of Management 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*Competencies - Student Learning Outcomes*

1. Explain strategic management in business operations
2. Define management, quality management, and project management
3. Identify relevant issues in human resource management

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**BUS-153 Human Resource Management 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**BUS-230 Small Business Management 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: BUS 110*

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.

*College Transfer: N/A*

**BUS-270 Professional Development 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ENG-111*

This course provides basic knowledge of self-improvement techniques as related to success in the professional world. Topics include positive human relations, job-seeking skills, and projecting positive self-image. Upon completion, students should be able to demonstrate competent personal and professional skills necessary to get and keep a job. *College Transfer: N/A*

**CHM-151 General Chemistry I 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: CHM-090 or high school Chemistry less than 5yrs old, grade of "B" or higher, DRE-097, DMA-010, DMA-020, DMA-030, DMA-040, and DMA-050*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science.*

*This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**CHM-152 General Chemistry II 3 3 0 0 4**

*Minimum State Prerequisites: Take CHM-151*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science.*

*This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**CIS-110 Introduction to Computers 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-096*

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems.

*Competencies- Student Learning Outcomes*

- 1. Identify the basic elements required in a computer system.*
- 2. Produce electronic documents using various software applications.*
- 3. Illustrate the role of the computer for personal and professional uses.*

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).*

*This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).*

**CIS-111 Basic PC Literacy 1 2 0 0 2**

*Minimum State: Prerequisites: None*

*Minimum State: Corequisites: None*

*Local Prerequisites: None*

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental

workplace use. Upon completion, students should be able to demonstrate basic personal computer skills.

*College Transfer: N/A*

**CIS-115 Intro to Prog & Logic 2 3 0 0 3**

*Minimum State Prerequisites: Take One Set:*

*Set 1: DMA-010, DMA-020, DMA-030 and DMA-040*

*Set 2: MAT-121*

*Set 3: MAT-171*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).*

*This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).*

**CJC-100 Basic Law Enforcement Tng 9 30 0 0 19**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**CJC-111 Intro to Criminal Justice 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

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**CJC-111 (continued)**

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**CJC-112 Criminology 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**CJC-113 Juvenile Justice 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**CJC-121 Law Enforcement Operations 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**CJC-131 Criminal Law 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**CJC-132 Court Procedure & Evidence 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**CJC-141 Corrections 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**CJC-212 Ethics & Comm Relations 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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

**(Continued on next page.)**

**CJC-212 (continued)**

topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

*College Transfer: N/A*

**CJC-214 Victimology 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the study of victims. Emphasis is placed on roles/characteristics of victims, victim interaction with the criminal justice system and society, current victim assistance programs, and other related topics. Upon completion, students should be able to discuss and identify victims, the uniqueness of victims' roles, and current victim assistance programs.

*College Transfer: N/A*

**CJC-221 Investigative Principles 3 2 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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 presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

*College Transfer: N/A*

**CJC-222 Criminalistics 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

*College Transfer: N/A*

**CJC-231 Constitutional Law 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution

and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts. *College Transfer: N/A*

**CJC-232 Civil Liability 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues.

*College Transfer: N/A*

**CJC-233 Correctional Law 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces statutory/case law pertinent to correctional concepts, facilities, and related practices. Topics include examination of major legal issues encompassing incarceration, probation, parole, restitution, pardon, restoration of rights, and other related topics. Upon completion, students should be able to identify/discuss legal issues which directly affect correctional systems and personnel.

*College Transfer: N/A*

**COM-231 Public Speaking 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ENG-111*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in English Composition.*

*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts (Substitute).*

*This is a Universal General Education Transfer Component (UGETC) course.*

**COS-111 Cosmetology Concepts I 4 0 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-112*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**COS-112 Salon I 0 24 0 0 8**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-111*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**COS-113 Cosmetology Concepts II 4 0 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-114*

*Local Prerequisites: COS-111*

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.

*College Transfer: N/A*

**COS-114 Salon II 0 24 0 0 8**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-113*

*Local Prerequisites: COS-112*

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

*College Transfer: N/A*

**COS-115 Cosmetology Concepts III 4 0 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-116*

*Local Prerequisites: COS-111*

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

*College Transfer: N/A*

**COS-116 Salon III 0 12 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-115*

*Local Prerequisites: COS-112*

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

*College Transfer: N/A*

**COS-117 Cosmetology Concepts IV 2 0 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-118*

*Local Prerequisites: COS-111, COS-113, and COS-115*

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

*College Transfer: N/A*

**COS-118 Salon IV 0 21 0 0 7**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take COS-117*

*Local Prerequisites: COS-112, COS-114 and COS-116*

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements.

*College Transfer: N/A*

**CSV-110 Intro to Customer Service 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the fundamentals of customer service technology. Topics include retail sales, order entry, credit, collection, authorization services, and fraud  
**(Continued on next page.)**

**CSV-110 (continued)**

control. Upon completion, students should be able to exhibit and extensive vocabulary of customer service terminology and be prepared for advanced study in customer service technology.

*College Transfer: N/A*

**CTS-115 Info Sys Business Concepts 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**CTS-120 Hardware/Software Support 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Take One: CIS-110 or CIS-111*

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

*College Transfer: N/A*

**CTS-130 Spreadsheet 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Take One: CIS-110 or CIS-111*

This course introduces basic spreadsheet design and development. Topics include writing formulas, using

functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.*College Transfer: N/A*

**CTS-220 Adv Hard/Software Support 2 3 0 0 3**

*Minimum State Prerequisites: Take CTS-120*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides advanced knowledge and competencies in hardware and operating system technologies for computer technicians to support personal computers. Emphasis is placed on: configuring and upgrading; diagnosis and troubleshooting; as well as preventive maintenance of hardware and system software. Upon completion, students should be able to install, configure, diagnose, perform preventive maintenance, and maintain basic networking on personal computers.

*College Transfer: N/A*

**CTS-230 Advanced Spreadsheet 2 2 0 0 3**

*Minimum State Prerequisites: Take CTS-130*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers advanced spreadsheet design and development. Topics include advanced functions and statistics, charting, macros, databases, and linking. Upon completion, students should be able to demonstrate competence in designing complex spreadsheets.

*College Transfer: N/A*

**CTS-285 Systems Analysis & Design 3 0 0 0 3**

*Minimum State Prerequisites: Take CIS-115*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**CTS-289 System Support Project 1 4 0 0 3**

*Minimum State Prerequisites: Take CTS-285*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides an opportunity to complete a significant support project with minimal instructor assistance. Emphasis is placed on written and oral communication skills, project definition, documentation, installation, testing, presentation, and user training. Upon

completion, students should be able to complete a project from the definition phase through implementation.  
*College Transfer: N/A*

**CUL-110 Sanitation & Safety** **2 0 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Corequisites: CUL-110A*

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.

*College Transfer: N/A*

**CUL-110A Sanitation & Safety Lab** **0 2 0 0 1**

*State Prerequisites None*

*State Corequisites Take 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.

*College Transfer N/A*

**CUL-120 Purchasing** **2 0 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**CUL-135 Food & Beverage Service** **2 0 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Corequisites: CUL-110A*

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.

*College Transfer: N/A*

**CUL-135A Food & Beverage Serv Lab 0 2 0 0 1**

*State Prerequisites None*

*State Corequisites Take 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.

*College Transfer N/A*

**CUL-140 Culinary Skills I 2 6 0 0 5**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take CUL-110*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**CUL-160 Baking I 1 4 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites; Take CUL-110*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**CUL-170 Garde Manger I 1 4 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take CUL-110*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**CUL-230 Global Cuisines 1 8 0 0 5**

*Minimum State Prerequisites: Take All: CUL-110 and CUL-140*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**CUL-240 Advanced Culinary Skills 1 8 0 0 5**

*Minimum State Prerequisites: Take CUL-140*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is a continuation of CUL 140. Emphasis is placed on meat fabrication and butchery; vegetable, starch, and protein cookery; 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.

*College Transfer: N/A*

**CUL-250 Classical Cuisine 1 8 0 0 5**

*Minimum State Prerequisites: Take All: CUL-110, CUL-140, and CUL-240*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is designed to reinforce the classical culinary kitchen. Topics include the working Grand Brigade of the kitchen, signature dishes and classical banquets. Upon completion, students should be able to demonstrate competence in food preparation in a classical/upscale restaurant or banquet setting.

*College Transfer: N/A*

**CUL-260 Baking II 1 4 0 0 3**

*Minimum State Prerequisites: Take CUL-160*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is a continuation of CUL 160. Topics include specialty breads, pastillage, marzipan, chocolate, pulled-sugar, confections, classic desserts, pastries, and cake decorating. Upon completion, students should be able to demonstrate pastry preparation and plating, cake decorating, and show-piece production skills.

*College Transfer: N/A*

**CUL-273 Career Development 1 0 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces students to career planning/management practices that serve as a foundation for success in the hospitality industry. Emphasis is placed on self-assessment, goal/career pathway development and employment strategies such as résumé preparation, interviewing techniques, and developing/utilizing the portfolio as a credential. Upon completion, students should be able to develop a career path leading to an effective job search.

*College Transfer: N/A*

**CUL-283 Farm-to-Table 2 6 0 0 5**

*Minimum State Prerequisites: Take CUL-110 and CUL-140*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces students to the cooperation between sustainable farmers and food service operations. Emphasis is placed on environmental relationships, including how food are grown, processed and distributed, as well as related implications on quality and sustainability. Upon completion students should be able to demonstrate an understanding of environmental stewardship and its impact on cuisine.

*College Transfer: N/A*

**DBA-110 Database Concepts 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: CIS-110 or CIS-111*

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.

*College Transfer: N/A*

**DBA-115 Database Applications 2 2 0 0 3**

*Minimum State Prerequisites: Take DBA-110*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course applies concepts learned in DBA 110 to a specific DBMS. Topics include manipulating multiple tables, advanced queries, screens and reports, linking, and command files. Upon completion, students should be able to create multiple table systems that demonstrate updates, screens, and reports representative of industry requirements.

*College Transfer: N/A*

**DFT-119 Basic CAD 1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces computer-aided drafting software for specific technologies to non-drafting majors. Emphasis is placed on understanding the software command structure and drafting standards for specific technical fields. Upon completion, students should be able to create and plot basic drawings. *College Transfer: N/A*

**ECO-151 Survey of Economics 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course for those who have not received credit for ECO- 251 or ECO-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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

**ECO-251 Prin of Microeconomics 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Take All: DMA-010, DMA-020, DMA-030, DMA- 040, DMA-050, and DRE-097*

This course introduces economic analysis of individual, business, and industry 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This course is a Universal General Education Transfer Component (UGETC) course.*

**ECO-252 Prin of Macroeconomics 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Take All: DMA-010, DMA-020, DMA-030, DMA- 040, DMA-050, and DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This course is a Universal General Education Transfer Component (UGETC) course.*

**EDU-119 Intro to Early Child Education 4 0 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

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, appropriate environments, schedules, and activity plans.

*College Transfer: N/A*

**EDU-131 Child, Family, & Community 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-097*

*Local Prerequisites: DRE-097*

This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/ resources. Upon completion,

students should be able to explain appropriate  
**(Continued on next page.)**

**EDU-131 (continued)**

relationships between families, educators, and professionals that enhance development and educational experiences of all children.

*College Transfer: N/A*

**EDU-144 Child Development I 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-097*

*Local Prerequisite: DRE 097*

This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/ contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development.

*College Transfer: N/A*

**EDU-145 Child Development II 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-097*

*Local Prerequisite: DRE-097*

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development.

*College Transfer: N/A*

**EDU-146 Child Guidance 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-097*

*Local Prerequisites: DRE 097*

This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self-control and the role of communication and guidance. Upon completion, students should be able to demonstrate



direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors.

*College Transfer: N/A*

**EDU-151 Creative Activities 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-097*

*Local Prerequisites: DRE-097*

This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and environments.

*College Transfer: N/A*

**EDU-153 Health, Safety & Nutrition 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-097*

*Local Prerequisites: DRE-097*

This course covers promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, safe learning environments, and adhere to state regulations.

*College Transfer: N/A*

**EDU-221 Children with Exceptionalities 3 0 0 0 3**

*Minimum State Prerequisites: Take one set:*

*Set 1: EDU-144 and EDU-145*

*Set 2: PSY-244 and PSY-245*

*Minimum State Corequisites: DRE-098*

*Local Prerequisite: DRE-098*

This course introduces children with exceptionalities, their families, support services, inclusive/diverse settings, and educational/family plans based on the foundations of child development. Emphasis is placed on the characteristics of exceptionalities, observation and assessment of children, strategies for adapting the learning environment, and identification of community resources. Upon completion, students should be able to recognize diverse abilities, describe the referral process, and depict collaboration with families/ professionals to plan/implement, and promote best practice.

**(Continued on next page.)**

**EDU-221 (continued)**

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement at select institutions.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**EDU-234 Infants, Toddlers, & Twos 3 0 0 0 3**

*Minimum State Prerequisites: EDU-119*

*Minimum State Corequisites: DRE-098*

*Local Prerequisites: DRE-098*

This course covers the unique needs and rapid changes that occur in the first three years of life and the inter-related factors that influence development. Emphasis is placed on recognizing and supporting developmental milestones through purposeful strategies, responsive care routines and identifying elements of quality, inclusive early care and education. Upon completion, students should be able to demonstrate respectful relationships that provide a foundation for healthy infant/toddler/twos development, plan/select activities/materials, and partner with diverse families.

*College Transfer: N/A*

**EDU-250 Praxis I Preparation 1 0 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-098*

*Local Prerequisites: ENG-111 and MAT-143*

This course is designed to prepare potential teachers for the PRAXIS I exam that is necessary to enter the field of education. Emphasis is placed on content specifications of the PRAXIS I exam, study skills and simulated examinations. Upon completion, students should be able demonstrate an understanding of the content necessary for successful completion of the PRAXIS I exam.

*College Transfer: N/A*

**EDU-259 Curriculum Planning 3 0 0 0 3**

*Minimum State Prerequisites: EDU-119*

*Minimum State Corequisites: DRE-098*

*Local Prerequisites: DRE-098*

This course is designed to focus on curriculum planning for three to five year olds. Topics include philosophy, curriculum models, indoor and outdoor environments, scheduling, authentic assessment, and planning developmentally appropriate experiences. Upon completion, students should be able to evaluate children's development, critique curriculum, plan for individual and group needs, and assess and create quality environments.

*College Transfer: N/A*

**EDU-261 Early Childhood Admin I 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: EDU-119 and DRE-098*

*Local Prerequisites: DRE-098*

This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards of NC child care programs, finance, funding resources, and staff and organizational management. Upon completion, students should be able to develop components of program/personnel handbooks, a program budget, and demonstrate knowledge of fundamental marketing strategies and NC standards.

*College Transfer: N/A*

**EDU-262 Early Childhood Admin II 3 0 0 0 3**

*Minimum State Prerequisites: EDU-261*

*Minimum State Corequisites: EDU-119 and DRE-098*

*Local Prerequisites: DRE-098*

This course focuses on advocacy/leadership, public relations/ community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

*College Transfer: N/A*

**EDU-271 Educational Technology 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-098*

*Local Prerequisites: DRE-098 and CIS-110*

This course introduces the use of technology to enhance teaching and learning in all educational settings. Topics include technology concepts, instructional strategies, materials and adaptive technology for children with exceptionalities, facilitation of assessment/evaluation, and ethical issues surrounding the use of technology. Upon completion, students should be able to apply technology enhanced instructional strategies, use a variety of technology resources and demonstrate appropriate technology skills in educational environments.

*College Transfer: N/A*

**EDU-280 Language & Literacy Experiences 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: DRE-098*

*Local Prerequisites: DRE-098*

This course is designed to expand students' understanding of children's language and literacy development and provides strategies for enhancing language/literacy

experiences in an enriched environment. Topics include  
**(Continued on next page.)**

**EDU-280 (continued)**

selection of diverse literature and interactive media, the integration of literacy concepts throughout the curriculum, appropriate observations/assessments and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate and diverse language/literacy experiences.

*College Transfer: N/A*

**EDU-284 Early Child Capstone Practice 1 9 0 0 4**

*Minimum State Prerequisites: Take One Set:*

*Set 1: EDU-119, EDU-144, EDU-145, EDU-146 and EDU-151*

*Set 2: EDU-119, PSY-244, PSY-245, EDU-146, and EDU-151*

*Set 3: EDU-119, PSY-245, EDU-144, EDU-146, and EDU-151*

*Set 4: EDU-119, PSY-244, EDU-145, EDU-146, and EDU-151*

*Minimum State Corequisites: DRE-098*

*Local Prerequisites: DRE-098*

This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/ assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

*College Transfer: N/A*

**ELC-112 DC/AC Electricity 3 6 0 0 5**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment; and other related topics. Upon completion, students should be able to construct, verify, troubleshoot, and repair DC/AC circuits.

*College Transfer: N/A*

**ELC-113 Residential Wiring 2 6 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the care/usage of tools and materials used in electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical print reading; planning, layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with residential electrical installations.

*College Transfer: N/A*

**ELC-114 Commercial Wiring 2 6 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELC-113*

This course provides instruction in the application of electrical tools, materials, and test equipment associated with electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with electrical installations.

*College Transfer: N/A*

**ELC-117 Motors and Controls 2 6 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELC-112*

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

*College Transfer: N/A*

**ELC-118 National Electrical Code 1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.

*College Transfer: N/A*

**ELC-128 Intro to Programmable Logic Controllers 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the programmable logic controller (PLC) and its associated applications. Topics include **(Continued on next page.)**

**ELC-128 (continued)**

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.

*College Transfer: N/A*

**ELC-220 Photovoltaic Sys Tech 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Take ELN-229*

This course introduces the concepts, tools, techniques, and materials needed to understand systems that convert solar energy into electricity with photovoltaic (pv) technologies. Topics include site analysis for system integration, building codes, and advances in photovoltaic technology. Upon completion, students should be able to demonstrate an understanding of the principles of photovoltaic technology and current applications.

*College Transfer: N/A*

**ELC-228 Programmable Logic Controllers Applications 2 6 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELC-128*

This course covers programming and applications of programmable logic controllers. Emphasis is placed on programming techniques, networking, specialty I/O modules, and system troubleshooting. Upon completion, students should be able to specify, implement, and maintain complex PLC controlled systems.

*College Transfer: N/A*

**ELC-229 Applications Project 1 3 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELN-229, ELN-232, ELC-228 and ELC-117*

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.

*College Transfer: N/A*

**ELN-133 Digital Electronics 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.

*College Transfer: N/A*

**ELN-229 Industrial Electronics 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELC-112, ELC-131 or ELC-140*

This course covers semiconductor devices used in industrial applications. Topics include the basic theory, application, and operating characteristics of semiconductor devices. Upon completion, students should be able to construct and/or troubleshoot these devices for proper operation in an industrial electronic circuit.

*College Transfer: N/A*

**ELN-231 Industrial Controls 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELN-229*

This course introduces the fundamental concepts of control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electromechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret schematics and demonstrate an understanding of electromechanical and electronic control of rotating machinery.

*College Transfer: N/A*

**ELN-232 Intro to Microprocessors 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELN-133*

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

*College Transfer: N/A*

**ELN-275 Troubleshooting 1 3 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: ELN 229 and ELC 117*

This course covers techniques of analyzing and repairing failures in electronic equipment. Topics include safety, signal tracing, use of service manuals, and specific  
**(Continued on next page.)**

**ELN-275 (continued)**

troubleshooting methods for analog, digital, and other electronics-based circuits and systems. Upon completion, students should be able to logically diagnose and isolate faults and perform necessary repairs to meet manufacturers' specifications.

*College Transfer: N/A*

**EMS-110 EMT 6 6 0 0 8**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-098*

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification.

*College Transfer: N/A*

**EMS-122 EMS Clinical Practicum I 0 0 3 0 1**

*Minimum State Prerequisites: Take EMS-110*

*Minimum State Corequisites: Take EMS-130*

*Local Prerequisites: None*

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 competence with fundamental paramedic level skills.

*College Transfer: N/A*

**EMS-130 Pharmacology 3 3 0 0 4**

*Minimum State Prerequisites: Take EMS-110*

*Minimum State Corequisites: Take EMS-122*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**EMS-131 Advanced Airway Management 1 2 0 0 2**

*Minimum State Prerequisites: Take EMS-110*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics include respiratory anatomy and physiology, airway/ventilation, adjuncts, surgical intervention, and rapid sequence intubation. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.

*College Transfer: N/A*

**EMS-160 Cardiology I 1 3 0 0 2**

*Minimum State Prerequisites: Take EMS-110*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and basic rhythm interpretation in the monitoring leads. Upon completion, students should be able to recognize and interpret basic rhythms. *College Transfer: N/A*

**EMS-220 Cardiology II 2 3 0 0 3**

*Minimum State Prerequisites: Take All: EMS-122, EMS-130, and EMS-160*

*Minimum State Corequisites: None*

*Local Prerequisites: 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, application and interpretation of advanced electrocardiography utilizing the twelve-lead ECG, cardiac pharmacology, and patient care. Upon completion, students should be able to assess and treat patients utilizing American Heart Association guidelines.

*College Transfer: N/A*

**EMS-221 EMS Clinical Practicum II 0 0 6 0 2**

*Minimum State Prerequisites: Take All: EMS-122 and EMS-130*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**EMS-231 EMS Clinical Practicum III 0 0 9 0 3**

*Minimum State Prerequisites: Take All: EMS-130 and EMS-221*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**EMS-235 EMS Management 2 0 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Program Director Approval for the EMS Bridge [A45430BR]*

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.

*College Transfer: N/A*

**EMS-240 Patients W/ Special Challenges 1 2 0 0 2**

*Minimum State Prerequisites: Take All: EMS-122 and EMS-130*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**EMS-241 EMS Clinical Practicum IV 0 0 12 0 4**

*Minimum State Prerequisites: Take All: EMS-130 and EMS-231*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**EMS-250 Medical Emergencies 3 3 0 0 4**

*Minimum State Prerequisites: Take All: EMS-122 and EMS-130*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**EMS-260 Advanced Trauma Emergencies 1 3 0 0 2**

*Minimum State Prerequisites: Take One Set:*

*Set 1: EMS-120, EMS-121, EMS-130, and EMS-131*

*Set 2: EMS-120, EMS-122, EMS-130, and EMS-131*

*Minimum State Corequisites: None*

*Local Prerequisites: 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 hemorrhage control, shock, burns, and trauma to head, spine, soft tissue, thoracic, abdominal, and musculoskeletal areas with case presentations utilized for special problems situations. Upon completion, students should be able to recognize and manage trauma situations based upon patient impressions and should meet requirements of BTLS or PHTLS courses. *College Transfer: N/A*

**EMS-270 Life Span Emergencies 2 3 0 0 3**

*Minimum State Prerequisites: Take All: EMS-122 and EMS-130*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**EMS-280 EMS Bridging Course 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: Program Director Approval for the EMS Bridge [A45430BR]*

*Local Corequisites: None*

*This course is designed to bridge the knowledge gained in a continuing education paramedic program with the knowledge gained in an EMS curriculum program. Topics include patient assessment, documentation, twelve-lead ECG analysis, thrombolytic agents, cardiac pacing, and advanced pharmacology. Upon completion, students should be able to perform advanced patient assessment documentation using the problem-oriented medical record format and manage complicated patients.*

*College Transfer: N/A*

**EMS-285 EMS Capstone 2 3 0 0 3**

*Minimum State Prerequisites: Take All: EMS-220, EMS-250 and EMS-260*

*Minimum State Corequisites: None*

*Local Prerequisites: 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 simulations. Upon completion, students should be able to recognize and appropriately respond to a variety of EMS-related events.

*College Transfer: N/A*

**ENG-102 Applied Communications II 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-096*

This course is designed to enhance writing and speaking skills for the workplace. Emphasis is placed on generating short writings such as job application documents, memoranda, and reports and developing interpersonal communication skills with employees and the public. Upon completion, students should be able to prepare effective, short, and job-related written and oral communications.

*College Transfer: N/A*

**ENG-110 Freshman Composition 3 0 0 0 3**

*Minimum State Prerequisites: Take: DRE-097*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is designed to develop informative and business writing skills. Emphasis is placed on logical organization of writing, including effective introductions and conclusions, precise use of grammar, and appropriate selection and use of sources. Upon completion, students should be able to produce clear, concise, well-organized short papers.

College Transfer: N/A

**ENG-111 Writing and Inquiry 3 0 0 0 3**

Minimum State Prerequisites: Take DRE-098

Minimum State Corequisites: None

Local Prerequisites: None

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English.

College Transfer: This course has been approved for transfer under the CAA as a general education course in English Composition.

This course has been approved for transfer under the ICAA as a general education course in English Composition.

This is a Universal General Education Transfer Component (UGETC) course.

**ENG-112 Writing/Research in the Disciplines 3 0 0 0 3**

Minimum State Prerequisites: Take ENG-111

Minimum State Corequisites: None

Local Prerequisites: None

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines.

College Transfer: This course has been approved for transfer under the CAA as a general education course in English Composition.

This course has been approved for transfer under the ICAA as a general education course in English Composition.

This is a Universal General Education Transfer Component (UGETC) course.

**ENG-115 Oral Communication 3 0 0 0 3**

Minimum State Prerequisites: None

Minimum State Corequisites: None

Local Prerequisites: DRE-097

This course introduces the basic principles of oral communication in both small group and public settings. Emphasis is placed on the components of the communication process, group decision-making, and public address. Upon completion, students should be able

to demonstrate the principles of effective oral communication in small group and public settings.

College Transfer: N/A

**ENG-231 American Literature I 3 0 0 0 3**

Minimum State Prerequisites: Take One: ENG-112, ENG-113, or ENG-114

Minimum State Corequisites: None

Local Prerequisites: 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 **(Continued on next page.)**

**ENG-231 (continued)**

completion, students should be able to analyze and interpret literary works in their historical and cultural contexts.

College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.

This is a Universal General Education Transfer Component (UGETC) course.

**ENG-232 American Literature II 3 0 0 0 3**

Minimum State Prerequisites: Take One: ENG-112, ENG-113, or ENG-114

Minimum State Corequisites: None

Local Prerequisites: 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.

College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.

This is a Universal General Education Transfer Component (UGETC) course.

**ENG-241 British Literature I 3 0 0 0 3**

State Prerequisites: Take ENG-112, ENG-113, or ENG-114

State Corequisites: None

Local Prerequisites: None

Local Corequisite: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**ENG-242 British Literature II 3 0 0 0 3**

*State Prerequisites: Take ENG-112, ENG-113, or ENG-114*

*State Corequisites: None*

*Local Prerequisites: None*

*Local Corequisite: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**HEA-112 First Aid & CPR 1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**HIS-111 World Civilizations I 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This is a Universal General Education Transfer Component (UGETC) course.*



**HIS-112 World Civilizations II 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**HIS-131 American History I 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**HIS-132 American History II 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**HRM-245 Human Resource Management-Hospitality 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**HSC-110 Orientation to Health Careers 1 0 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is a survey of health care professions. Topics include professional duties and responsibilities, working environments, and career choices. Upon completion, students should be able to demonstrate an understanding of the health care professions and be prepared to make informed career choices. Additional topics will include legal and ethical issues, clinical communication and trends in health care.

*College Transfer: N/A*

**HUM-115 Critical Thinking 3 0 0 0 3**

*State Prerequisites: Take DRE 098*

*State Corequisites: None*

*Local Prerequisites: None*

*Local Corequisite: 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 critical thinking skills in the analysis of appropriate texts.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

**HUM-130 Myth in Human Culture 3 0 0 0 3**

*State Prerequisites: None*

*State Corequisites: None*

*Local Prerequisites: DRE 097*

*Local Corequisite: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

**HYD-110 Hydraulics/Pneumatics I 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control  
**(Continued on next page.)**

**HYD-110 (continued)**

assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting.

*College Transfer: N/A*

**ISC-110 Workplace Safety 1 0 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the basic concepts of workplace safety. Topics include fire, ladders, lifting, lock-out/tag-out, personal protective devices, and other workplace safety issues related to OSHA compliance.

Upon completion, students should be able to demonstrate an understanding of the components of a safe workplace.

*College Transfer: N/A*

**MAT-110 Math Measurement & Literacy 2 2 0 0 3**

*Minimum State Prerequisites: Take All: DMA-010, DMA-020, and DMA-030*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**MAT-143 Quantitative Literacy 2 2 0 0 3**

*Minimum State Prerequisites: Take All: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, and DRE-098*

*Minimum State Corequisites: None*

*Local Prerequisites: 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 quantitative information found in modern media and encountered in everyday life.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).*

*This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).*

*This is a Universal General Education Transfer Component (UGETC) course.*

**MAT-152 Statistical Methods I 3 2 0 0 4**

*Minimum State Prerequisites: Take All: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, and DRE-098*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. **(Continued on next page.)**

**MAT-152 (continued)**

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).*

*This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).*

*This is a Universal General Education Transfer Component (UGETC) course.*

**MAT-171 Precalculus Algebra 3 2 0 0 4**

*DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, DMA-065*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics.*

*This course has been approved for transfer under the ICAA as a general education course in Mathematics.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**MAT-172 Precalculus Trigonometry 3 2 0 0 4**

*Minimum State Prerequisites: Take MAT-171*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics.*

*This course has been approved for transfer under the ICAA as a general education course in Mathematics.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**MAT-271 Calculus I****3 2 0 0 4**

*Minimum State Prerequisites: Take: MAT-172*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics.*

*This course has been approved for transfer under the ICAA as a general education course in Mathematics.*

*This is a Universal General Education Transfer Component (UGETC) Component course (Math/Associate in Science)*

**MAT-272 Calculus II****3 2 0 0 4**

*Minimum State Prerequisites: Take MAT-271*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Mathematics. This course has been approved for transfer under the ICAA as a general education course in Mathematics.*

**MEC-110 Intro to CAD/CAM****1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces CAD/CAM. Emphasis is placed on transferring part geometry from CAD to CAM for the development of a CNC-ready program. Upon completion, students should be able to use CAD/CAM software to produce a CNC program.

*College Transfer: N/A*

**MEC-111 Machine Processes I**                    **1 4 0 0 3**  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: None*  
 This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to manufacture simple parts to specified tolerance.  
*College Transfer: N/A*

**MEC-276 Capstone Design Project**            **0 3 0 0 1**  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: Take All; BPR-111, ELC-117, ELC-228, ELN-229, HYD-110, MEC-110, MEC-111 MNT-110, and WLD-112*  
 This course provides an opportunity for students to utilize all facets of their educational experience to solve an engineering design problem in a multi-disciplinary environment. Competencies demonstrated include project planning and organization, engineering analysis and design, selection of materials and processes, economic analysis, communication, and project documentation. Upon completion, students should be able to demonstrate the ability to complete a comprehensive design project, concluding with a formal report.  
*College Transfer: N/A*

**MED-120 Survey of Medical Term**            **2 0 0 0 2**  
*State Prerequisites: None*  
*State 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.  
*College Transfer: N/A*

**MKT-120 Principles of Marketing**            **3 0 0 0 3**  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: DRE-097*  
 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.

**MNT-110 Intro to Maintenance Procedures**            **1 3 0 0 2**  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*

*Local Prerequisites: None*  
 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.  
*College Transfer: N/A*

**MNT-263 Electrical-Pneumatic Components**                                    **2 4 0 0 4**  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: HYD-110, ELC-117, ELC-128*  
 This course introduces principles and practical applications of electrical/pneumatic control systems and primary control devices incorporated in those systems. Emphasis is placed on reading and interpreting ladder diagrams, building control circuits, and troubleshooting valves, switches, and sensors. Upon completion, students should be able to design, build, and troubleshoot basic electro-pneumatic control systems.  
*College Transfer: N/A*

**MUS-110 Music Appreciation**                                    **3 0 0 0 3**  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: DRE-097*  
 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.  
*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.*  
*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*  
*This is a Universal General Education Transfer Component (UGETC) course.*

**MUS-112 Introduction to Jazz**                                    **3 0 0 0 3**  
*Minimum State Prerequisites: None*  
*Minimum State Corequisites: None*  
*Local Prerequisites: DRE-097*  
*Local Corequisites: None*  
 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  
**(Continued on next page.)**

**MUS-112 (continued)**

in listening and understanding this form of American music.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.*

*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.*

**NAS-101 Nurse Aide I 3 4 3 0 6**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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. *College Transfer: N/A*

**NAS-102 Nurse Aide II 3 2 6 0 6**

*Minimum State Prerequisites: NAS 101*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**NAS-107 Medication Aide Class 0 2 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course will cover the six rights of medication administration for non-licensed personnel. Topics will include medication administration via the oral, topical and installation routes, medical asepsis, hand hygiene, terminology, and legal implications. Upon completion, students should be able to demonstrate skills necessary to

qualify as a Medication Aide with the North Carolina Medication Aide Registry.

*College Transfer: N/A*

**NET-110 Networking Concepts 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces students to the networking field. Topics include network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

*College Transfer: N/A*

**NOS-110 Operating Systems Concepts 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is place on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems. *College Transfer: N/A*

**NOS-120 Linux/UNIX Single User 2 2 0 0 3**

*Minimum State Prerequisites: Take One: NOS-110, CET-211 or CTI-130*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**NOS-130 Windows Single User 2 2 0 0 3**

*Minimum State Prerequisites: Take One: NOS-110, CET-211 or CTI-130*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**NOS-230 Windows Admin I 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: NOS-130*

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. *College Transfer: N/A*

**NUR-101 Practical Nursing I 7 6 6 0 11**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: CNA-1 and BIO-168*

*Local Corequisites: BIO-169 and 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 assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*College Transfer: N/A*

**NUR-102 Practical Nursing II 7 0 9 0 10**

*Minimum State Prerequisites: NUR 101*

*Minimum State Corequisites: None*

*Local Prerequisites: NUR-101*

*Local Corequisites: PSY-150*

This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

*College Transfer: N/A*

**NUR-103 Practical Nursing III 6 0 9 0 9**

*Minimum State Prerequisites: NUR 101*

*Minimum State Corequisites: None*

*Local Prerequisites: NUR-102*

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on biophysical and psychosocial concepts, professional behaviors, healthcare systems, health policy, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide safe, quality, and individualized entry level nursing care.

*College Transfer: N/A*

**NUR-111 Intro to Health Concepts 4 6 6 0 8**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: CNA-I, BIO-168, BIO 169, CHM 151, and PSY 150*

*Local Corequisites: 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.

*College Transfer: N/A*

**NUR-112 Health-Illness Concepts 3 0 6 0 5**

*Minimum State Prerequisites: Take NUR-111*

*Minimum State Corequisites: None*

*Local Prerequisites: NUR-111*

*Local Corequisites: NUR-114 and PSY 241*

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.

*College Transfer: N/A*

**NUR-113 Family Health Concepts 3 0 6 0 5**

*Minimum State Prerequisites: Take NUR-111*

*Minimum State Corequisites: None*

*Local Prerequisites: NUR-112 and NUR-114*

*Local Corequisites: None*

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.  
*College Transfer: N/A*

**NUR-114 Holistic Health Concepts 3 0 6 0 5**

*Minimum State Prerequisites: Take NUR-111*

*Minimum State Corequisites:*

*Local Prerequisites: NUR-111*

*Local Corequisites: NUR-112 and PSY 241*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*College Transfer: N/A*

**NUR-117 Pharmacology 1 3 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: CNA-I, BIO-168, BIO 169, CHM 151, and PSY 150*

*Local Corequisites: ENG-111*

This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability, pharmacokinetics, routes of medication administration, contraindications and side effects. Upon completion, students should be able to compute dosages and administer medication safely.

*College Transfer: N/A*

**NUR-133 Nursing Assessment 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: CNA-I, BIO-168, BIO 169, CHM 151, and PSY 150*

*Local Corequisites: ENG-111*

This course provides theory and application experience for performing nursing assessment of individuals. Emphasis is placed on interviewing and physical assessment techniques and documentation of findings appropriate for nursing. Upon completion, students should be able to complete a health history and perform a non-invasive physical assessment.

*College Transfer: N/A*

**NUR-211 Health Care Concepts 3 0 6 0 5**

*Minimum State Prerequisites: Take NUR-111*

*Minimum State Corequisites: None*

*Local Prerequisites: NUR-113*

*Local Corequisites: NUR-212 and ENG 112*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility,

comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*College Transfer: N/A*

**NUR-212 Health System Concepts 3 0 6 0 5**

*Minimum State Prerequisites: Take NUR-111*

*Minimum State Corequisites: None*

*Local Prerequisites: NUR-113*

*Local Corequisites: NUR-212 and ENG 112*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course

*College Transfer: N/A*

**NUR-213 Complex Health 4 3 15 1 0**

*Minimum State Prerequisites: Take NUR-111*

*Minimum State Corequisites: Take All: NUR-112, NUR-113, NUR- 114, NUR-211, and NUR-212*

*Local Prerequisites: NUR-112 and NUR -212*

*Local Corequisites: Humanities/Fine Arts Elective*

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

*College Transfer: N/A*

**NUT-110 Nutrition 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers basic principles of nutrition and their relationship to human health. Topics include meeting nutritional needs of healthy people, menu modification based on special dietary needs, food habits, and contemporary problems associated with nutrition. Upon completion, students should be able to apply basic nutritional concepts as they relate to health and well-being.

*College Transfer: N/A*

**OST-131 Keyboarding 1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**OST-134 Text Entry & Formatting 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: OST-131*

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. *College Transfer: N/A*

**OST-135 Advanced Text Entry & Format 3 2 0 0 4**

*Minimum State Prerequisites: Take OST-134*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is designed to incorporate computer application skills in the generation of office documents. Emphasis is placed on advanced document production. Upon completion, students should be able to make independent decisions regarding planning, style, and method of presentation.

*College Transfer: N/A*

**OST-136 Word Processing 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**OST-141 Medical Terms I-Med Office 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course uses a language-structure approach to present the terminology and vocabulary that will be encountered in medical office settings. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in approximately one-half of the



systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.

*College Transfer: N/A*

**OST-142 Medical Terms II-Med Office 3 0 0 0 3**

*Minimum State Prerequisites: Take OST-141*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is a continuation of OST 141 and continues the study, using a language-structure approach, of medical office terminology and vocabulary. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in the remaining systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.

*College Transfer: N/A*

**OST-148 Medical Coding Billing & Insurance 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces fundamentals of medical coding, billing, and insurance. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim.

*College Transfer: N/A*

**OST-149 Medical Legal Issues 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior. *College Transfer: N/A*

**OST-164 Text Editing Applications 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**OST-184 Records Management 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

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. *College Transfer: N/A*

**OST-223 Admin Office Transcript I 2 2 0 0 3**

*Minimum State Prerequisites: Take One Set:*

*Set 1: OST-134 and OST-164*

*Set 2: OST-136 and OST-164*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides experience in transcribing documents. Emphasis is placed on appropriate formatting, advanced text editing skills, and transcription techniques. Upon completion, students should be able to transcribe office documents. *College Transfer: N/A*

**OST-243 Med Office Simulation 2 2 0 0 3**

*Minimum State Prerequisites: Take OST-148*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

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. *College Transfer: N/A*

**OST-289 Administrative Office Mgt 2 2 0 0 3**

*Minimum State Prerequisites: Take One Set:*

*Set 1: OST-134 and OST-164*

*Set 2: OST-136 and OST-164*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is designed to be a capstone course for the office professional and provides a working knowledge of modern office procedures. Emphasis is placed on scheduling, telephone procedures, travel arrangements, event planning, office design, and ergonomics. Upon completion, students should be able to adapt in an office environment. *College Transfer: N/A*

**PED-110 Fit and Well for Life 1 2 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**PED-117 Weight Training I 0 3 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course*

**PED-118 Weight Training II 0 3 0 0 1**

*Minimum State Prerequisites: Take PED-117*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**PED-120 Walking for Fitness 0 3 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon

completion, students should be able to participate in a recreational walking program.

*College Transfer: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.*

**(Continued on next page.)**

**PED-120 (continued)**

*This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

**PHI-215 Philosophical Issues 3 0 0 0 3**

*Minimum State Prerequisites: Take ENG-111*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**PHI-240 Introduction to Ethics 3 0 0 0 3**

*Minimum State Prerequisites: Take ENG-111*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**PHY-110 Conceptual Physics 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE -097*

*Local 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.

*College Transfer This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**PHY-110A Conceptual Physics Lab 0 2 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take PHY-110*

*Local Prerequisites: None*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science.*

*This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**PHY-151 College Physics I 3 2 0 0 4**

*Minimum State Prerequisites: Take One: MAT-161, MAT-171, or MAT-175*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science.*

*This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**PHY-152 College Physics II 3 2 0 0 4**

*Minimum State Prerequisites: Take PHY-151*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course uses algebra- and trigonometry-based  
**(Continued on next page.)**

**PHY-152 (continued)**

mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Natural Science.*

*This course has been approved for transfer under the ICAA as a general education course in Natural Science.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**PLU-111 Intro to Basic Plumbing 1 3 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces basic plumbing tools, materials, and fixtures. Topics include standard tools, materials, and fixtures used in basic plumbing systems and other related topics. Upon completion, students should be able to demonstrate an understanding of a basic plumbing system. *College Transfer: N/A*

**POL-120 American Government 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course is a study of the origins, development, structure, and functions of American government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**PSY-118 Interpersonal Psychology 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**PSY-150 General Psychology 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This course is a Universal General Education Transfer Component (UGETC) course.*

**PSY-241 Developmental Psychology 3 0 0 0 3**

*Minimum State Prerequisites: PSY-150*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

*Local 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

**RAD-110 Rad Intro & Patient Care 2 3 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take All: RAD-111 and RAD-151*

*Local Prerequisites: Admission into the Radiography Program and BIO-168 and BIO-169*

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**RAD-110 (continued)**

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. *College Transfer: N/A*

**RAD-111 RAD Procedures I 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take All: RAD-110 and RAD-151*

*Local Prerequisites: None*

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, spine, and pelvis. Upon completion, students should be able to demonstrate competence in these areas.

*College Transfer: N/A*

**RAD-112 RAD Procedures II 3 3 0 0 4**

*Minimum State Prerequisites: Take All: RAD-110, RAD-111, and RAD-151*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

*Local Corequisites: RAD-121 and RAD-161*

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, bony thorax, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas. *College Transfer: N/A*

**RAD-121 Radiographic Imaging I 2 3 0 0 3**

*Minimum State Prerequisites: Take All: RAD-110, RAD-111, and RAD-151*

*Minimum State Corequisites: RAD-112 and RAD-161*

*Local Prerequisites: None*

This course provides the principles of conventional film-screen radiography. Emphasis is placed on the factors that impact density, contrast, recorded detail, and distortion. Upon completion, students should be able to demonstrate an understanding of conventional film-screen radiographic imaging. *College Transfer: N/A*

**RAD-122 Radiographic Imaging II 1 3 0 0 2**  
*Minimum State Prerequisites: Take All: RAD-112, RAD-121, and RAD-161*

*Minimum State Corequisites: Take All: RAD-131, and RAD-171*

*Local Prerequisites: None*

This course provides advanced principles of imaging including digital radiography. Emphasis is placed on the factors that impact brightness, contrast, recorded detail, and distortion. Upon completion, students should be able to demonstrate an understanding of advanced principles of imaging. *College Transfer: N/A*

**RAD-131 Radiographic Physics I 1 3 0 0 2**

*Minimum State Prerequisites: RAD-121*

*Minimum State Corequisites: RAD-122 and RAD-171*

*Local Prerequisites: None*

This course introduces the fundamental principles of physics that underlie diagnostic X-ray production and radiography. Topics include electromagnetic waves, electricity and magnetism, electrical energy, and power and circuits as they relate to radiography. Upon completion, students should be able to demonstrate an understanding of basic principles of physics as they relate to the operation of radiographic equipment.

*College Transfer: N/A*

**RAD-151 RAD Clinical Education I 0 0 6 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take All: RAD-110 and RAD-111*

*Local Prerequisites: None*

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. *College Transfer: N/A*

**RAD-161 RAD Clinical Education II 0 0 15 0 5**

*Minimum State Prerequisites: Take All: RAD-110, RAD-111, and RAD-151*

*Minimum State Corequisites: Take All: RAD-112 and RAD-121*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**RAD-171 RAD Clinical Education III 0 0 12 0 4**

*Minimum State Prerequisites: Take All: RAD-112, RAD-121, and RAD-161*

*Minimum State Corequisites: Take All: RAD-122 and RAD-131*

*Local Prerequisites: None*

This course provides experience in patient management specific to fluoroscopic and advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and mastering positioning **(Continued on next page.)**

**RAD-171 (continued)**

of gastrointestinal and urological studies.

Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*College Transfer: N/A*

**RAD-211 RAD Procedures III 2 3 0 0 3**

*Minimum State Prerequisites: Take RAD-122, RAD-131 and RAD-171*

*Minimum State Corequisites: Take All: RAD-231, RAD-241, and RAD-251*

*Local Prerequisites: None*

This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, sectional anatomy, and advanced imaging. Upon completion, students should be able to demonstrate an understanding of these areas.

*College Transfer: N/A*

**RAD-231 Radiographic Physics II 1 3 0 0 2**

*Minimum State Prerequisites: Take One: RAD-131 or RAD-171*

*Minimum State Corequisites: RAD-211, RAD-241 and RAD-251*

*Local Prerequisites: None*

This course provides advanced principles of radiation characteristics and production including digital imaging and Computed Tomography (CT). Emphasis is placed on imaging equipment. Upon completion, students should be able to demonstrate an understanding of radiation characteristics and production.

*College Transfer: N/A*

**RAD-241 Radiobiology/Protection 2 0 0 0 2**

*Minimum State Prerequisites: Take All: RAD-122, RAD-131, and RAD-171*

*Minimum State Corequisites: Take All: RAD-211, RAD-231, and RAD-251*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**RAD-245 Image Analysis 1 3 0 0 2**

*Minimum State Prerequisites: Take All: RAD-211, RAD-231, RAD- 241, and RAD-251*

*Minimum State Corequisites: Take RAD-261 and RAD-271*

*Local Prerequisites: None*

This course provides an overview of image analysis and introduces methods of quality management. Topics include image evaluation, pathology, quality control, and quality assurance. Upon completion, students should be able to demonstrate a basic knowledge of image analysis and quality management.

*College Transfer: N/A*

**RAD-251 RAD Clinical Education IV 0 0 21 0 7**

*Minimum State Prerequisites: Take All: RAD-122, RAD-131, and RAD-171*

*Minimum State Corequisites: Take All: RAD-211, RAD-231, and RAD-241*

*Local Prerequisites: None*

This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and a further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*College Transfer: N/A*

**RAD-261 RAD Clinical Education V 0 0 21 0 7**

*Minimum State Prerequisites: Take RAD-251*

*Minimum State Corequisites: Take RAD-245 and RAD-271*

*Local Prerequisites: None*

This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*College Transfer: N/A*

**RAD-271 Radiography Capstone 0 3 0 0 1**

*Minimum State Prerequisites: Take All: RAD-211, RAD-231, RAD- 241, and RAD-251*

*Minimum State Corequisites: Take All: RAD-245, and RAD-261*

*Local Prerequisites: None*

This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of an entry-level radiographer.

*College Transfer: N/A*

**RCP-110 Intro to Respiratory Care 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: BIO-168, BIO-169, ENG-111, MAT-143*

*Local Corequisites: BIO-275, ENG-112, Humanities/Fine Arts Elective*

This course introduces the respiratory care profession. Topics include the role of the respiratory care practitioner, medical gas administration, basic patient assessment, infection control, and medical terminology. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations.

*College Transfer: N/A*

**RCP-111 Therapeutics/Diagnostics 4 3 0 0 5**

*Minimum State Prerequisites: Take RCP-110*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

*Local Corequisites: PSY-150*

This course is a continuation of RCP 110. Emphasis is placed on entry-level therapeutic and diagnostic procedures used in respiratory care. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations. *College Transfer: N/A*

**RCP-114 C-P Anatomy & Physiology 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**RCP-115 C-P Pathophysiology 2 0 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the etiology, pathogenesis, and physiology of cardiopulmonary diseases and disorders. Emphasis is placed on clinical signs and symptoms along with diagnoses, complications, prognoses, and management. Upon completion, students should be able to demonstrate competence in these concepts through written evaluations.

*College Transfer: N/A*

**RCP-122 Special Practice Lab 0 2 0 0 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides additional laboratory learning opportunities in respiratory care. Emphasis is placed on therapeutic procedures and equipment management. Upon completion, students should be able to demonstrate competence in concepts and procedures through laboratory evaluations.

*College Transfer: N/A*

**RCP-133 RCP Clinical Practice I 0 0 9 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take RCP-110*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**RCP-142 RCP Clinical Practice II 0 0 6 0 2**

*Minimum State Prerequisites: Take RCP-110*

*Minimum State Corequisites: Take RCP-111*

*Local Prerequisites: RCP-133*

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.

*College Transfer: N/A*

**RCP-158 RCP Clinical Practice III 0 0 24 0 8**

*Minimum State Prerequisites: Take RCP-111*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**RCP-210 Critical Care Concepts 3 3 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: RCP-110, RCP-110, RCP-114, and RCP-133*

*Local Corequisites: RCP-115, RCP-122, and RCP-142*

This course provides further refinement of acute patient care and underlying pathophysiology. Topics include a continuation in the study of mechanical ventilation,

underlying pathophysiology, and introduction of critical  
(Continued on next page.)

**RCP-210 (continued)**

care monitoring. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations.  
*College Transfer: N/A*

**RCP-211 Advanced Monitoring/ Procedures** 3 3 0 0 4

*Minimum State Prerequisites: Take RCP-210*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course includes advanced information gathering and decision making for the respiratory care professional. Topics include advanced cardiac monitoring and special procedures. Upon completion, students should be able to evaluate, design, and recommend appropriate care plans through written and laboratory evaluations.

*College Transfer: N/A*

**RCP-214 Neonatal/Peds Respiratory Care** 1 3 0 0 2

*Minimum State Prerequisites: Take RCP-111*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course provides in-depth coverage of the concepts of neonatal and pediatric respiratory care. Emphasis is placed on neonatal and pediatric pathophysiology and on the special therapeutic needs of neonates and children. Upon completion, students should be able to demonstrate competence in these concepts through written and laboratory evaluations.

*College Transfer: N/A*

**RCP-215 Career Prep-Adv Level** 0 3 0 0 1

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: RCP-110, RCP-111, RCP-114, RCP-115, RCP-122, RCP-133, RCP-142, RCP-158, RCP-210, RCP-211, and RCP-214*

*Local Corerequisites: RCP-238*

This course provides preparation for employment and the advanced-level practitioner credentialing exam. Emphasis is placed on review of the NBRC Advanced-Level Practitioner Exam and supervision and management. Upon completion, students should be able to successfully complete the appropriate self-assessment examinations and meet the requirements for employment.

*College Transfer: N/A*

**RCP-238 RCP Clinical Practice IV** 0 0 2 4 0 8

*Minimum State Prerequisites: Take RCP-111*

*Minimum State Corequisites: Take RCP-210*

*Local Prerequisites: RCP-214*

*Local Corerequisites: RCP-238*

This course provides advanced practitioner clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. *College Transfer: N/A*

**REL-110 World Religions** 3 0 0 0 3

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.*

*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

**REL-221 Religion in America** 3 0 0 0 3

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.*

*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

**SEC-110 Security Concepts** 2 2 0 0 3

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**SOC-210 Introduction to Sociology 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

*This is a Universal General Education Transfer Component (UGETC) course.*

**SOC-213 Sociology of the Family 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.*

*This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

**SPA-111 Elementary Spanish I 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: DRE-097*

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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.*

*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

**SPA-112 Elementary Spanish II 3 0 0 0 3**

*Minimum State Prerequisites: Take SPA-111*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.*

*This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

**SUR-110 Intro to Surgical Technology 3 0 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take SUR-111*

*Local Prerequisites: Admission into the Surgical Technology Program and BIO-168*

This course provides a comprehensive study of peri-operative care, patient care concepts, and professional practice concepts within the profession of surgical technology. Topics include: introductory concepts, organizational structure and relationships, legal, ethical and moral issues, medical terminology, pharmacology, anesthesia, wound healing management concepts, and the technological sciences. Upon completion, students should be able to apply theoretical knowledge of the course topics to the practice of surgical technology.

*College Transfer: N/A*

**SUR-111 Periop Patient Care 5 6 0 0 7**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: Take SUR-110*

*Local Prerequisites: Admission into the Surgical Technology Program*

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.

*College Transfer: N/A*

**SUR-122 Surgical Procedures I 5 3 0 0 6**

*Minimum State Prerequisites: Take All: SUR-110 and SUR-111*

*Minimum State Corequisites: Take One: SUR-123 or STP-101*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**SUR-123 Surgical Clinical Practice I 0 0 21 0 7**

*Minimum State Prerequisites: Take All: SUR-110 and SUR-111*

*Minimum State Corequisites: Take SUR-122*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**SUR-134 Surgical Procedures II 5 0 0 0 5**

*Minimum State Prerequisites: Take One: SUR-123 or STP-101*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**SUR-135 SUR Clinical Practice II 0 0 12 0 4**

*Minimum State Prerequisites: Take SUR-123*

*Minimum State Corequisites: Take SUR-134*

*Local Prerequisites: None*

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.

*College Transfer: N/A*

**SUR-137 Prof Success Prep 1 0 0 0 1**

*Minimum State Prerequisites: Take SUR-123*

*Minimum State Corequisites: Take All: SUR-134 and SUR-135*

*Local Prerequisites: 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.

*College Transfer: N/A*

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

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**WBL-121 Work Based Learning II 0 0 0 10 1**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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. *College Transfer: N/A*

**WEB-110 Internet/Web Fundamentals 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the

Internet. Topics include creating web pages, search  
**(Continued on next page.)**

**WEB-110 (continued)**

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.

*College Transfer: N/A*

**WLD-110 Cutting Processes 1 3 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.

*College Transfer: N/A*

**WLD-112 Basic Welding Processes 1 3 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: 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.

*College Transfer: N/A*

**WLD-115 SMAW (Stick) Plate 2 9 0 0 5**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

*College Transfer: N/A*

**WLD-116 SMAW (stick) Plate/Pipe 1 9 0 0 4**

*Minimum State Prerequisites: Take WLD-115*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with

prescribed electrodes in the flat, horizontal, vertical, and overhead positions.

*College Transfer: N/A*

**WLD-121 GMAW (MIG) FCAW/Plate 2 6 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

*College Transfer: N/A*

**WLD-131 GTAW (TIG) Plate 2 6 0 0 4**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

*College Transfer: N/A*

**WLD-132 GTAW (TIG) Plate/Pipe 1 6 0 0 3**

*Minimum State Prerequisites: WLD-131*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.

*College Transfer: N/A*

**WLD-141 Symbols & Specifications 2 2 0 0 3**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding. *College Transfer: N/A*

**WLD-212 Inert Gas Welding 1 3 0 0 2**

*Minimum State Prerequisites: None*

*Minimum State Corequisites: None*

*Local Prerequisites: WLD-112*

This course introduces inert gas-shielded welding  
**(Continued on next page.)**

**WLD-210 (continued)**

methods (MIG/TIG). Topics include correct selection of consumable and non-consumable electrodes, equipment setup, safety, and welding techniques. Upon completion, students should be able to perform inert gas welding in flat, horizontal, and overhead positions.

*College Transfer: N/A*

**WLD-231 GTAW (TIG) Pipe 1 6 0 0 3**

*Minimum State Prerequisites: WLD-132*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers gas tungsten arc welding on pipe. Topics include joint preparation and fit up with emphasis placed on safety, GTAW welding technique, bead application, and joint geometry. Upon completion students should be able to perform GTAW welds to applicable codes on pipe with prescribed electrodes and filler materials on various pipe positions.

*College Transfer: N/A*

**WLD-261 Certification Practices 1 3 0 0 2**

*Minimum State Prerequisites: Take All: WLD-115,*

*WLD-121, and WLD-131*

*Minimum State Corequisites: None*

*Local Prerequisites: None*

This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for prequalified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes.

*College Transfer: N/A*