CENTRAL CAROLINA COMMUNITY COLLEGE

Program Planning Guide
Criminal Justice Technology - Forensic Science, Associate in Applied Science (A5518C)

Program Length: 5 Semesters
Career Pathway Options: Associate in Applied Science, Criminal Justice Technology-Forensic Science
Program Site/s: Lee Main Campus

Suggested Course Schedule:

		Hours				
		Class	Lab	Clinical	Credit	Notes:
1st Semester (Fall)						
ACA 122	College Transfer Success	0	2	0	1	
CJC 111	Introduction to Criminal Justice	3	0	0	3	
CJC 115	Crime Scene Photography	2	3	0	3	
CJC 231	Constitutional Law	3	0	0	3	
CJC 245	Friction Ridge Analysis	2	3	0	3	
MAT 143	Quantitative Literacy	2	2	0	3	
		12	10	0	16	
2nd Semester (Spring)						
CJC 146	Trace Evidence	2	3	0	3	
CJC 120	Interviews/Interrogations	1	2	0	2	
CJC 221	Investigative Principles	3	2	0	4	
CJC 246	Adv. Friction Ridge Analysis	2	3	0	3	
ENG 111	Writing & Inquiry	3	0	0	3	
		11	10	0	15	
3rd Semester (Summer)						
CJC 112	Criminology	3	0	0	3	
CJC 113	Juvenile Justice	3	0	0	3	
		6	0	0	6	
4th Semester (Fall)						
CIS 110	Introduction to Computers	2	2	0	3	
CJC 131	Criminal Law	3	0	0	3	
CJC 222	Criminalistics	3	0	0	3	
CJC 144	Crime Scene Processing	2	3	0	3	
	Humanities/Fine Arts Elect.	3	0	0	3	
		13	5	0	15	
5th Semester (Spring)						
CJC 121	Law Enforcement Operations	3	0	0	3	
CJC 212	Ethics/Community Relations	3	0	0	3	
CJC 232	Civil Liability	3	0	0	3	
	Communications Elective	3	0	0	3	
	Soc/Behavioral Science Elective	3	0	0	3	
		15	0	0	15	

Total semester hours credit required for graduation: 65

ACA 122 College Transfer Success 0-3-1
This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

BIO 110 Principles of Biology 3-3-4
This course provides a survey of fundamental biological principles of non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life.

CIS 110 Introduction to Computers 2-2-3
This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

CJC 111 Intro to Criminal Justice 3-0-3
This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

CJC 112 Criminology 3-0-3
This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

CJC 113 Juvenile Justice 3-0-3
This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

CJC 114 Investigative Photography 1-2-2
This course covers the operation of digital photographic equipment and its application to criminal justice. Topics include the use of digital cameras, storage of digital images, retrieval of digital images, and preparation of digital images as evidence. Upon completion, students should be able to demonstrate and explain the role and use of digital photography, image storage, and retrieval in criminal investigation.

CJC 115 Crime Scene Photography 2-3-3
This course covers methodologies for photographing crime scenes including their application to forensic sciences, the legal system and the proper use of digital cameras and accessories Topics include digital cameras, operational functions required to properly photography physical evidence and crime scenes, factors affecting admissibility of crime scene photographs, and methods and techniques specific to photographing crime scenes. Upon completion, students should be able to operate digital cameras using appropriate settings to control exposure and depth of field , properly compose various types of crime scene photographs, and use specialized techniques to properly photograph key items of evidence.

CJC 120 Interviews/Interrogations 1-2-2
The course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims.

CJC 121 Law Enforcement Operations 3-0-3
This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. This course has been approved for transfer under the CAA/ICAA as a premajor and/or elective course requirement.

CJC 131 Criminal Law 3-0-3
This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

CJC 144 Crime Scene Processing 2-3-3
This course introduces the theories and practices of crime scene processing and investigating. Topics include legal considerations at the crime scene, processing indoor and outdoor scenes, recording, note taking, collection and preservation of evidence, and submission to the crime laboratory. Upon completion, the student should be able to evaluate and search various crime scenes and demonstrate the appropriate techniques.

CJC 146 Trace Evidence 2-3-3
This course provides a study of trace evidence as it relates to forensic science. Topics include collection, packaging, and preservation of trace evidence from crime scenes such as bombings, fires, and other scenes. Upon completion, students should be able to demonstrate the fundamental concepts of trace evidence collection, preservation, and submission to the crime laboratory.

CJC 212 Ethics & Comm Relations 3-0-3
This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

CJC 221 Investigative Principles 3-2-4
This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

CJC 222 Criminalistics 3-0-3
This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

CJC 231 Constitutional Law 3-0-3
The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

CJC 232 Civil Liability 3-0-3

CJC 245 Friction Ridge Analysis 2-3-3
This course introduces the basic elements of fingerprint technology and techniques applicable to the criminal justice field. Topics include the history and meaning of fingerprints, pattern types and classification, filing sequence, searching, and referencing. Upon completion, students should be able to discuss and demonstrate the fundamental techniques of basic fingerprint technology.

CJC 246 Advanced Friction Ridge Analysis 2-3-3
Prerequisite: CJC 245
Corequisite: None
This course introduces the theories and processes of advanced friction ridge analysis. Topics include evaluation of friction ridges, chart preparation, comparative analysis for valued determination rendering proper identification, chemical enhancement, and AFIS preparation and usage. Upon completion, students must show an understanding of proper procedures for friction ridge analysis through written testing and practical exercises.

CJC 250 Forensic Biology I 2-2-3
This course covers important biological principles that are applied in the crime laboratory. Topics include forensic toxicology, forensic serology, microscopy, and DNA typing analysis, with an overview of organic and inorganic analysis. Upon completion, students should be able to articulate how a crime laboratory processes physical evidence submitted by law enforcement agencies.

CJC 251 Forensic Chemistry I 3-2-4
This course provides a study of the fundamental concepts of chemistry as it relates to forensic science. Topics include physical and chemical properties of substances, metric measurements, chemical changes, elements, compounds, gases, and atomic structure. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of forensic chemistry.

ENG 111 Writing and Inquiry 3-0-3
Prerequisites: Take one set: RED 090 and ENG 090, ENG 095, DRE 098, or appropriate placement test scores.
This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. This course has been approved for transfer under the CAA and ICAA as a general education course in English Composition.

ENG 115 Oral Communication 3-0-3
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.

MAT 110 Math Measurement & Literacy 2-2-3
Prerequisite: Take one set: set 1: DMA-010, DMA-020, & DMA-030; set 2: DMA-025; set 3: MAT-003; set 4: BSP-4003
Corequisite: MAT 010
This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon

completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

MAT 143 Quantitative Literacy 2-2-3
*Prerequisite: Take one set: **Set 1**: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DRE-098 **Set 2**: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and ENG-095 **Set 3**: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and ENG-090 and RED-090*
This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life. This course has been approved for transfer under the CAA and ICAA as a general education course in Mathematics (Quantitative).