

Florida Gateway College
Learning Outcomes

Accounting Technology Certificate

Students completing the Accounting Technology Certificate program will be able to:

1. Apply terminology, concepts, and applications of federal income tax law for individuals.
2. Understand the principles of accounting during the complete accounting cycle
3. Understand product costing, budgeting, analysis of financial results and financial analysis of future actions

Florida Gateway College
Learning Outcomes

Criminal Justice Technology Corrections Track AS Degree

Students completing the Criminal Justice Technology Corrections AS Degree program will be able to:

1. Articulate the basic philosophies that guide policing, corrections, courts, juvenile justice, probation and parole, and victimology.
2. Demonstrate a fundamental understanding of human behavior from a historical, criminological and sociological perspective.
3. Demonstrate a working knowledge of the role of corrections at various levels of government within the state.
4. Demonstrate an understanding of the procedures outlined by the United States Constitution and the Bill of Rights for criminal procedure.
5. Demonstrate critical reasoning, problem solving abilities, communication skills, technology skills and ethical concerns in criminal justice.

Florida Gateway College
Learning Outcomes

Criminal Justice Technology General Track AS Degree

Students completing the Criminal Justice Technology General Track AS Degree program will be able to:

1. Articulate the basic philosophies that guide policing, corrections, courts, juvenile justice, probation and parole, and victimology.
2. Demonstrate a fundamental understanding of human behavior from a historical, criminological and sociological perspective.
3. Demonstrate a working knowledge of the role of corrections at various levels of government within the state.
4. Demonstrate an understanding of the procedures outlined by the United States Constitution and the Bill of Rights for criminal procedure.
5. Demonstrate critical reasoning, problem solving abilities, communication skills, technology skills and ethical concerns in criminal justice.

Florida Gateway College
Learning Outcomes

Criminal Justice Technology Law Enforcement Track AS Degree

Students completing the Criminal Justice Technology Law Enforcement Track AS Degree Program will be able to:

1. Articulate the basic philosophies that guide policing, corrections, courts, juvenile justice, probation and parole, and victimology.
2. Demonstrate a fundamental understanding of human behavior from a historical, criminological and sociological perspective.
3. Demonstrate a working knowledge of the role of corrections at various levels of government within the state.
4. Demonstrate an understanding of the procedures outlined by the United States Constitution and the Bill of Rights for criminal procedure.
5. Demonstrate critical reasoning, problem solving abilities, communication skills, technology skills and ethical concerns in criminal justice

Florida Gateway College
Learning Outcomes

Environmental Science Technology AS Degree

1. Effectively use computer technology or specialize environmental equipment in data collection and analysis and/or in written or oral presentations.
2. Effectively apply research techniques to identify information or data sources.
3. Demonstrate knowledge of Florida's environmental characteristics, and sources of impact and by human activities.
4. Demonstrate awareness of the importance of ethics and data integrity in scientific studies and in their role as environmental professionals.
5. Identify and describe potential environmental employment opportunities in Florida.

Florida Gateway College
Learning Outcomes

Bachelor of Applied Science Degree in Water Resources Management

Graduates will demonstrate foundational understanding and perform functional tasks utilizing:

1. Water resource management in public and private watershed systems.
2. Water/wastewater operational systems including treatment, collection, and distribution in the private and public sector.
3. Automated process control systems in water/wastewater systems.
4. Advanced and emerging technologies in water/wastewater systems and resource management.
5. Federal, state, regional, and local water management laws and regulations.
6. Management of employees, system assets, and budgets.
7. Governmental taxation, rate-setting and other sources of funding for infrastructure and operations.

Florida Gateway College
Learning Outcomes

Water Quality Technician Certificate

1. Understand the biological and chemical processes present in water and wastewater treatment systems.
2. Understand the mathematical, chemical, physical, and biological treatment of water and wastewater
3. Understand wastewater and drinking water processes and laws
4. Pass the state certification examination for Wastewater Treatment Plant Operator C

Florida Gateway College
Learning Outcomes

Business Administration AS Degree

1. Students will demonstrate knowledge of basic business vocabulary.
2. Students will demonstrate the ability to develop marketing plans and small business plans.
3. Students will be able to use financial information to support decision making.
4. Students will demonstrate effective communication skills in business, and understand the impact of communication inside and outside the organization.
5. Understand the fundamentals of management, administrative policies, objectives and procedures and problems of organization control and leadership.
6. Students will demonstrate the ability to use basic business software to access, produce, analyze or interpret basic business information.

Florida Gateway College
Learning Outcomes

Business Management Certificate

1. Apply concepts learned to determine the advantages and disadvantages of owning a small business
2. Identify key issues, necessities, opportunities, and challenges faced by small business entrepreneurs.
3. Prepare a business plan for development and maintenance of a small business.

Florida Gateway College
Learning Outcomes

Commercial HVAC Certificate

1. Students will wire a basic air conditioning system
 - a. Properly supply line voltage to the condensing unit.
 - b. Properly supply line voltage to the air handler.
 - c. Properly wire the control voltage.
 - d. Properly wire the thermostat.
 - e. Start system and run in the cooling mode.
 - f. Execute each task according to all safety rules and regulations
2. Students will identify electrical problems in a nonfunctioning heat pump system.
 - a. Troubleshoot and repair compressor electrical problems.
 - b. Troubleshoot and repair condenser electrical problems.
 - c. Troubleshoot and repair air handler electrical problems.
 - d. Troubleshoot and repair power supply problems.
 - e. Execute each task according to all safety rules and regulations
3. Students will identify mechanical problems in a nonfunctioning heat pump system.
 - a. Properly supply line voltage to the condensing unit.
 - b. Properly supply line voltage to the air handler.
 - c. Properly wire the control voltage.
 - d. Properly wire the thermostat.
 - e. Start system and run in the cooling mode.
 - f. Execute each task according to all safety rules and regulations.

Florida Gateway College
Learning Outcomes

Cosmetology Certificate

1. Demonstrate the different hair color and highlighting techniques and be able to do corrective color
2. Demonstrate the ability to perform haircutting, hairstyling, chemical texture services, hair color services and salon management skills.
3. Perform the proper procedures in sanitizing of implements, cleansing, exfoliating, masking, moisturizing, massaging of the legs and feet, and correctly polishing the nails in a pedicure service.
4. Demonstrate an understanding of the difference between gel, acrylic, fiberglass, and nail wraps when performing each type of artificial nails.
5. Demonstrate the ability to evaluate the skin type and disorders and provide correct treatments and successfully locate and use the correct motor points
6. Demonstrate an understanding of the different skin types using the skin scanner and mag light to determine whether it is dry, oily, combination or sensitive

Florida Gateway College
Program Learning Outcomes
Engineering Process Technology Advanced Manufacturing AS Degree

Upon completion of the program students will be able to:

1. Earn a passing score on the Electronics Technicians Association International's DC Basics and AC Basics modules of the Associate Electronics Technician exam
2. Earn a passing score on the Safety, Quality Practices & Measurement; Manufacturing Processes & Production; and Maintenance Awareness exams of the Manufacturing Skills Standards Council's Certified Production Technician examinations
3. Author original software programs that utilize digital inputs to control digital or binary outputs in both ladder logic and function block programming modes
4. Represent a control system comprised of digital inputs and digital or binary outputs using a ladder diagram, a Boolean Algebra function or a truth table
5. Complete a rack-mounted physical and electrical installation of common industrial models of both Allen Bradley and Siemens programmable logic controllers (PLCs)
6. Complete the signal wire connection of common industrial sensors and transducers to both Allen Bradley and Siemens programmable logic controllers (PLCs)
7. Complete electrical connection of both Allen Bradley and Siemens programmable logic controllers (PLCs) to common industrial process equipment including solenoids, electromechanical relays, and computerized electric motor starters
8. Author original software programs for both Allen Bradley and Siemens programmable logic controllers (PLCs) to control digital/binary outputs based on digital or analog inputs using proportional or PID control schemas
9. Explain the principles of operation for common industrial temperature, pressure and flow measurement instruments and use these instruments on a functional system to collect temperature, pressure and flow data
10. Analyze instrument data to identify sources of and degree of random and systematic error
11. Author original software programs that utilize digital and/or analog inputs to control digital/binary and/or analog outputs in sequential statement mode
12. Construct electronic systems comprised of a controller and digital and/or analog inputs and outputs, and operate the systems successfully using an originally authored software program
13. Earn a passing score on the International Fluid Power Society's Industrial Hydraulic Technician exam
14. Understand and explain the construction, principles or operation, and maintenance of common types of industrial DC, AC single phase and AC three-phase electric motors
15. Understand and explain the construction, principles or operation, and maintenance of common types of industrial motor starters and variable speed drives
16. Identify the industrial equipment and components represented by ANSI electrical, hydraulic, pneumatic, instrumentation and piping schematic symbols
17. Create piping and instrumentation diagrams in accordance with ISA principles and practices using both AutoDesk AutoCAD and Microsoft Visio
18. Create electrical, hydraulic, pneumatic, and PLC-controlled hybrid system simulations using Automation Studio software

Florida Gateway College
Learning Outcomes

Engineering Process Technology Support Specialist Certificate

Upon completion of the program the student will be able to

1. Earn a passing score on the Electronics Technicians Association International's DC Basics and AC Basics modules of the Associate Electronics Technician exam
2. Earn a passing score on the Safety, Quality Practices & Measurement; Manufacturing Processes & Production; and Maintenance Awareness exams of the Manufacturing Skills Standards Council's Certified Production Technician examinations
3. Explain the principles of operation for common industrial temperature, pressure and flow measurement instruments and use these instruments on a functional system to collect temperature, pressure and flow data
4. Analyze instrument data to identify sources of and degree of random and systematic error
5. Create piping and instrumentation diagrams in accordance with ISA principles and practices using both AutoDesk AutoCAD and Microsoft Visio
6. Create electrical, hydraulic, pneumatic, and PLC-controlled hybrid system simulations using Automation Studio software

Florida Gateway College
Learning Outcomes

Facial Specialty Certificate

1. Perform the proper procedures in sanitizing of implements
2. Demonstrate the ability to evaluate the skin type and disorders and provide correct treatments and successfully locate and use the correct motor points
3. Demonstrate an understanding of the different skin types using the skin scanner and mag light to determine whether it is dry, oily, combination or sensitive

Florida Gateway College
Learning Outcomes

Horticulture Certificate

Upon completion of the program students will be able to:

1. Understand plant morphology
2. Describe the basic life processes of plants such as photosynthesis and respiration
3. Explain plant water and nutrient uptake/use
4. Make decisions on plant management based on physiological knowledge
5. Identify and understand factors in soil genesis.
6. Understand soil classification systems and utilize soil surveys.
7. Relate soil physical and chemical properties to plant growth, irrigation, and fertilization.
8. Understand the relationship of soil organic matter to soil chemical and physical properties and plant growth and fertilization.
9. Read and understand fertilizer labels as well as identify properties of specific fertilizer materials.
10. Understand the basics of soil testing
11. Understand the basic chemistry used to develop plant and pest management programs
12. Understand/balance chemical reactions
13. Determine fertilizer and liming rates based on soil tests
14. Interpret water quality test results
15. Understand the economic and utilitarian value of turfgrass.
16. Be familiar with turfgrass taxonomy and morphology.
17. Correctly identify economically important cool and warm season turfgrasses.
18. Learn the establishment, management, distribution, and usage of turfgrasses on golf courses and in the landscape.
19. Identify and evaluate irrigation water sources
20. Identify irrigation system components and materials
21. Understand basic irrigation terminology & design
22. Understand basic irrigation troubleshooting techniques
23. Know definition of common plant terms
24. Characterize landscape plant classifications and binomial nomenclature
25. Identify woody plant leaf anatomy
26. Characterize landscape plant culture
27. Identify North/Central Florida landscape plant material
28. Distinguish landscape uses and growth requirements

Florida Gateway College
Learning Outcomes

Logistics and Transportation Certificate

1. Students will demonstrate an understanding of logistics and supply chain management's basic principles.
2. Students will understand the various modes of transportation and their use.
3. Students will demonstrate an understanding of packaging, warehousing, and materials handling.
4. Students will demonstrate an understanding of inventory and supply planning.
5. Students will demonstrate an understanding of purchasing and contracting.
6. Students will demonstrate an understanding of the principles of total quality management

Florida Gateway College
Learning Outcomes

Nail Specialty Certificate

1. Demonstrate an understanding of the difference between gel, acrylic, fiberglass, and nail wraps when performing each type of artificial nails
2. Perform the proper procedures in sanitizing of implements
3. Demonstrate the ability to evaluate the skin type and disorders and provide correct treatments and successfully locate and use the correct motor points

Florida Gateway College
Learning Outcomes

Pneumatics, Hydraulics and Motors for Manufacturing Certificate

Upon completion of the program the student will be able to

1. Earn a passing score on the International Fluid Power Society's Industrial Hydraulic Technician exam
2. Understand and explain the construction, principles or operation, and maintenance of common types of industrial DC, AC single phase and AC three-phase electric motors
3. Understand and explain the construction, principles or operation, and maintenance of common types of industrial motor starters and variable speed drives

Florida Gateway College
Learning Outcomes

Supply Chain Management AS Degree

1. Students will demonstrate an understanding of logistics and supply chain management's basic principles.
2. Students will understand the various modes of transportation and their use.
3. Students will demonstrate understanding of warehousing and materials handling.
4. Students will demonstrate understanding an understanding of basic business terms utilized in supply management.
5. Students will demonstrate and understand the importance of business communication.
6. Students will demonstrate an understanding of forecasting, inventory and supply planning.
7. Students will demonstrate the ability to use basic business software to access, produce, analyze or interpret information required for supply chain coordination.
8. Students will demonstrate an understanding of purchasing and the impact of sourcing on operations and the supply chain.
9. Students will demonstrate an understanding of the principles of total quality management.
10. Students will demonstrate their suitability for entry level work in procurement, distribution, transportation, and material handling.

Florida Gateway College
Learning Outcomes

Applied Welding Technology Certificate

1. Students will be able to safely cut, prepare, and join metals together through welding using the Shield Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding, (FCAW), Gas Tungsten Arc Welding (GTAW), Plasma Arc Cutting (PAC) and Oxyfuel cutting processes
2. Students will be able to earn Nationally Recognized Certificates for each level of completion.
3. Students will be able to demonstrate intrapersonal skills needed to secure employment in the welding profession.
4. Students will be able to demonstrate the ability to weld steel on plate using the SMAW process
5. Students will be able to demonstrate competency in structural welding for certification using the SMAW process
6. Students will be able to demonstrate competency with drawing and symbol interpretation
7. Students will be able to pass structural weld code tests using gas metal arc welding (GMAW) and flux core arc welding (FCAW-G) processes.
8. Students will be able to demonstrate intermediate ability in pipe welding using shielded metal arc welding (SMAW) and gas tungsten arc welding (GTAW).
9. Students will be able to demonstrate professional level skills and knowledge to complete pipe welding for certification using shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and flux cored arc welding (FCAW-G), and gas tungsten arc welding (GTAW)

Florida Gateway College
Learning Outcomes

Bachelor of Science Degree Nursing

By completion of the Florida Gateway College RN to BSN program, the graduate will be able to:

1. Integrate knowledge from a variety of disciplines to inform decision making in the professional practice of nursing (Core Value/Growth Attribute: Knowledge).
2. Apply leadership and management principles in the coordination of high quality safe patient care (Core Value/Growth Attribute: Leadership).
3. Implement evidence based practices to improve patient outcomes through the application of basic research principles (Core Value/Growth Attribute: Inquiry).
4. Facilitate the application of patient care technology skills that support safe nursing practice (Core Value/Growth Attribute: Skill).
5. Provide service to the community by advocating for policies aimed at reducing health disparities (Core Value/Growth Attribute: Service).
6. Collaborate with other healthcare professionals to coordinate high quality safe patient care (Core Value/Growth Attribute: Collaboration).
7. Apply knowledge of health promotion and disease prevention to improve health of individuals and the community (Core Value/Growth Attribute: Health).
8. Influence the practice of nursing through leadership behaviors that evidence mutual respect and understanding (Core Value/Growth Attribute: Elegance).
9. Promote holistic, culturally competent care for people from diverse backgrounds (Core Value/Growth Attribute: Diversity).
10. Design innovative approaches to manage complex and evolving care needs (Core Value/Growth Attribute: Innovation).

Florida Gateway College
Learning Outcomes

Patient Care Assistant Certificate

After successfully completing this program, the student will be able to:

1. Demonstrate knowledge of the healthcare delivery system and health occupations.
2. Demonstrate the ability to communicate and use interpersonal skills effectively.
3. Demonstrate legal and ethical responsibilities.
4. Demonstrate an understanding of and apply wellness and disease concepts.
5. Recognize and practice safety and security procedures.
6. Recognize and respond to emergency situations.
7. Recognize and practice infection control procedures.
8. Demonstrate an understanding of information technology applications in healthcare.
9. Demonstrate employability skills.
10. Demonstrate knowledge of blood borne diseases, including HIV/AIDS.
11. Apply basic math and science skills.
12. Use verbal and written communications specific to the nursing assistant.
13. Demonstrate legal and ethical responsibilities specific to the nursing assistant.
14. Perform physical comfort and safety functions specific to the nursing assistant.
15. Provide personal patient care.
16. Perform patient care procedures.
17. Apply principles of nutrition.
18. Provide care for geriatric patients.
19. Apply the principles of infection control specific to the nursing assistant.
20. Provide biological, psychological, and social support.
21. Perform supervised organizational functions, following the patient plan of care.
22. Assist with restorative (rehabilitative) activities.
23. Use verbal and written communications specific to home health aide.
24. Demonstrate legal and ethical responsibilities specific to home health aide.
25. Perform physical comfort and safety functions specific to home health aide.
26. Apply principles of nutrition specific to home health aide.
27. Apply the principles of infection control specific to home health aide.
28. Perform home health-care services.
29. Perform nursing assistant skills related to the hospital setting.
30. Provide nursing assistant care for the adult patient.

Florida Gateway College
Learning Outcomes

Patient Care Technician Certificate

After successfully completing this program, the student will be able to:

1. Demonstrate knowledge of the healthcare delivery system and health occupations.
2. Demonstrate the ability to communicate and use interpersonal skills effectively.
3. Demonstrate legal and ethical responsibilities.
4. Demonstrate an understanding of and apply wellness and disease concepts.
5. Recognize and practice safety and security procedures.
6. Recognize and respond to emergency situations.
7. Recognize and practice infection control procedures.
8. Demonstrate an understanding of information technology applications in healthcare.
9. Demonstrate employability skills.
10. Demonstrate knowledge of blood borne diseases, including HIV/AIDS.
11. Apply basic math and science skills.
12. Use verbal and written communications specific to the nursing assistant.
13. Demonstrate legal and ethical responsibilities specific to the nursing assistant.
14. Perform physical comfort and safety functions specific to the nursing assistant.
15. Provide personal patient care.
16. Perform patient care procedures.
17. Apply principles of nutrition.
18. Provide care for geriatric patients.
19. Apply the principles of infection control specific to the nursing assistant.
20. Provide biological, psychological, and social support.
21. Perform supervised organizational functions, following the patient plan of care.
22. Assist with restorative (rehabilitative) activities.
23. Use verbal and written communications specific to home health aide.
24. Demonstrate legal and ethical responsibilities specific to home health aide.
25. Perform physical comfort and safety functions specific to home health aide.
26. Apply principles of nutrition specific to home health aide.
27. Apply the principles of infection control specific to home health aide.
28. Perform home health-care services.
29. Perform nursing assistant skills related to the hospital setting.
30. Provide nursing assistant care for the adult patient.
31. Perform skills representative of 1-3 major allied health areas as determined by local labor market demand. Such skills must be at the aide level and not beyond the scope of unlicensed assistive personnel.
32. Successfully complete a clinical rotation in the selected major allied health areas.
33. Perform additional skills from the previous module which are in the aide level and do not go beyond the scope of practice of unlicensed assistive personnel.
34. Successfully complete a clinical rotation in the selected major allied health areas.
35. Demonstrate knowledge of organizational and effective team member skills.

36. Practice organizational and effective team member skills in a clinical setting.

Florida Gateway College
Learning Outcomes

Physical Therapist Assistant AS Degree

The graduate will be able to:

1. Perform in a safe manner that minimizes risk to patient, self and others.
2. Conduct self in a responsible manner.
3. Interact with others in a respectful manner.
4. Adhere to ethical standards.
5. Adhere to legal standards.
6. Communicate in ways that are congruent with situational needs.
7. Produce documentation to support the delivery of physical therapy services.
8. Deliver established patient care to reflect respect for and sensitivity to individual differences.
9. Participate in patient status judgments within the clinical environment based on the plan of care established by the physical therapist.
10. Obtain accurate information by performing selected data collection consistent with the plan of care established by the physical therapist maintaining confidentiality.
11. Discuss the need for modification to the plan of care established by the physical therapist.
12. Perform physical therapy interventions in a technically competent manner.
13. Educate others (patients, family, caregivers, staff, students, other health care providers) using relevant and effective teaching methods.
14. Participate in activities addressing quality of service delivery.
15. Participate in addressing patient needs for services other than physical therapy.
16. Manage resources (e.g., time, space, and equipment) to achieve goals of the clinical setting.
17. Use physical therapy aides and other support personnel according to legal standards and ethical guidelines.
18. Implement a self-directed plan for career development and lifelong learning.
19. Recognize historical aspects of the profession and analyzes contemporary healthcare issues.

Florida Gateway College
Learning Outcomes

Practical Nursing Certificate

After successfully completing this program, the graduate will be able to:

1. Provide personal patient care.
2. Demonstrate computer literacy as related to nursing functions.
3. Use verbal and written communication in the performance of nursing functions.
4. Demonstrate legal and ethical responsibilities specific to the nursing profession.
5. Describe human growth and development.
6. Develop organizational skills.
7. Perform aseptic techniques.
8. Describe the anatomy and physiology of the human body.
9. Describe current trends affecting the health care system.
10. Perform physical comfort and safety functions.
11. Perform nursing procedures.
12. Administer medications.
13. Apply principles of nutrition.
14. Provide care for medical/surgical patients utilizing nursing principles.
15. Provide care for maternal/newborn patients, utilizing nursing principles.
16. Provide care for pediatric patients, utilizing nursing principles.
17. Provide care for geriatric patients, utilizing nursing principles.
18. Apply mental health concepts to the patient experiencing illness across the lifespan.
19. Apply the principles of infection control.
20. Provide care for pre-operative and post-operative patients.
21. Provide bio-psycho-social support.
22. Assist with rehabilitative activities.
23. Perform home health care/community services.
24. Demonstrate knowledge of sexually transmitted diseases, including AIDS.
25. Demonstrate employability skills, specific to practical nursing.
26. Demonstrate role behaviors showing progression to graduate nurse.

Florida Gateway College
Learning Outcomes

Registered Nursing Associate Degree

Upon satisfactory completion of the Associate in Science Degree in Nursing at Florida Gateway College, the graduate will be able to:

1.0 As a provider of patient care incorporate established professional standards, guidelines, and competencies to provide culturally appropriate care.

- 1.1 Accurately complete a patient assessment for an assigned group of patients.
- 1.2 Based on patient assessment, formulate appropriate nursing diagnoses with realistic, measureable patient outcomes.
- 1.3 In collaboration with the patient, family, significant others, spiritual advisor and other members of the health care team develop a plan of care.
- 1.4 Implement appropriate interventions with technical competence based on plan of care.
- 1.5 Evaluate patient outcomes and family/significant other
- 1.6 Provide education to patient
- 1.7 Effectively communicate with patients and all members of the healthcare team.

2.0 As a manager of care demonstrates effective, efficient use of human, physical, financial, and technological resources in meeting patient need and supporting organizational outcomes.

- 2.1 Foster a culture of safety
- 2.2 Collaborate with members of the healthcare team to assist the patient to move toward achievement of patient outcomes in a cost efficient manner.
- 2.3 Provide for patient confidentiality.
- 2.4 Serve as a patient advocate

3.0 As a member of the discipline demonstrates a commitment to the profession through membership in professional organizations at the local and state levels.

- 3.1 Demonstrate professional attitudes and behavior.
- 3.2 Demonstrate commitment to personal growth and professional membership.
- 3.3 Function within legal and ethical parameters of professional practice
- 3.4 Participate in community service.

Florida Gateway College
Learning Outcomes

CMS Law Enforcement – Basic Recruit Certificate

1. Students will demonstrate a basic knowledge of the Florida Criminal and Civil laws, as well as the Federal guidelines concerning criminal procedure.
2. Students will demonstrate basic firearm and defensive tactic skills necessary for law enforcement officers
3. Students will demonstrate basic driving skills necessary for law enforcement officers
4. Students will demonstrate a basic knowledge of the communication skills necessary for law enforcement officer effectiveness.
5. Students will demonstrate basic First Aid/First Responder skills necessary for law enforcement officers.

Florida Gateway College
Learning Outcomes

Correctional Basic Recruit Certificate

1. Students will demonstrate a basic knowledge of the Florida Criminal and Civil laws, as well as the Federal guidelines concerning criminal procedure.
2. Students will demonstrate basic firearm and defensive tactic skills necessary for corrections officers
3. Students will demonstrate a basic knowledge of the communication skills necessary for correctional effectiveness.
4. Students will demonstrate basic First Aid/First Responder skills necessary for corrections.

Florida Gateway College
Learning Outcomes

Crossover Correctional Officer to Law Enforcement Basic Recruit Certificate

1. Students will demonstrate a basic knowledge of the Florida Criminal and Civil laws, as well as the Federal guidelines concerning criminal procedure.
2. Students will demonstrate basic firearm and defensive tactic skills necessary for law enforcement officers
3. Students will demonstrate basic driving skills necessary for law enforcement officers
4. Students will demonstrate a basic knowledge of the communication skills necessary for law enforcement officer effectiveness.
5. Students will demonstrate basic First Aid/First Responder skills necessary for law enforcement officers.

Florida Gateway College
Learning Outcomes

Crossover Law Enforcement to Corrections Basic Recruit Certificate

1. Students will demonstrate a basic knowledge of the Florida Criminal and Civil laws, as well as the Federal guidelines concerning criminal procedure.
2. Students will demonstrate basic firearm and defensive tactic skills necessary for corrections officers
3. Students will demonstrate a basic knowledge of the communication skills necessary for correctional effectiveness.
4. Students will demonstrate basic First Aid/First Responder skills necessary for corrections.

Florida Gateway College
Learning Outcomes

Emergency Medical Services Technology AS Degree

1. Perform Patient Care Procedures typically assigned to EMTs and paramedics in the pre-hospital field.
2. Demonstrate legal and ethical responsibilities specific to the healthcare occupations
3. Students will demonstrate professional behaviors in the pre-hospital healthcare environment
4. Demonstrate employability skills
5. Understand the need for continuing education and skills practice for life-long learning

Paramedic Certificate

1. Perform comprehensive patient assessment and management.
2. Demonstrate proficient skills with advanced airway devices.
3. Demonstrate aseptic technique of peripheral venipuncture, IV insertion and drawing blood samples.
4. Demonstrate safe medication administration and pharmacology interventions.
5. Demonstrate professional appearance and behaviors

Emergency Medical Technician Basic Certificate

1. Perform comprehensive patient assessment and management.
2. Demonstrate proficient skills with advanced airway devices.
3. Demonstrate safe medication administration and pharmacology interventions.
4. Demonstrate professional appearance and behaviors

Florida Gateway College
Learning Outcomes

Fire Science Apparatus Operator Certificate

1. Individuals will demonstrate competencies in performing firefighting duties involving the operations and functions of fire service vehicles.
2. Receive certification under Florida Statute 633.34

Firefighter Minimum Standards Certificate

1. Students will demonstrate the skills and knowledge necessary for first responders to perform emergency care of a victim.
2. Students will understand basic fire department organization
3. Students will apply safety practices while performing firefighting activities.
4. Students will understand fire behavior and theories of extinguishment
5. Students will understand building construction and structural awareness
6. Receive the state certification through the Florida Bureau of Fire Standards and Training

Firefighter 1

1. Students will understand basic fire department organization
2. Students will apply safety practices and be aware of hazardous materials while performing firefighting activities.
3. Students will understand fire behavior and theories of extinguishment
4. Students will understand building construction and structural awareness
5. Receive the state certification through the Florida Bureau of Fire Standards and Training

Florida Gateway College
Learning Outcomes

Early Childhood Education AS Degree

Graduates will be able to:

1. Demonstrate knowledge of child growth and development
2. Demonstrate knowledge of early childhood education: infants / toddlers
3. Demonstrate knowledge of early childhood education: preschool
4. Demonstrate an awareness of the importance of positive interactions with the family
5. Demonstrate knowledge of state and local rules and regulations
6. Demonstrate knowledge of child abuse and neglect
7. Demonstrate knowledge of safety, health, and nutrition
8. Demonstrate knowledge of the early childhood education profession
9. Demonstrate knowledge of community needs and resources
10. Demonstrate knowledge of appropriate methods of guidance and classroom management
11. Demonstrate various observations and recording methods
12. Demonstrate knowledge of disabling conditions

Florida Gateway College
Learning Outcomes

Early Childhood Education BS Degree

Upon successful completion of this program, students will be able to demonstrate:

1. Knowledge of child development from conception to age 8
2. Knowledge of early childhood foundations, standards, professional practices, and professional development
3. Knowledge of contemporary research, trends, and issues in early childhood
4. Knowledge of cultural and linguistic diversity
5. Knowledge of issues and strategies for engaging families and communities
6. Knowledge of curriculum and developmentally appropriate instructional practices
7. Knowledge of child guidance and positive behavior support
8. Knowledge of children and families requiring special services
9. Knowledge of screening, assessment, and evaluation
10. Knowledge of safety and emotional, mental, and physical health

Florida Gateway College
Learning Outcomes

Computer Information Technology AS Degree

1. Demonstrate how to use current productivity software applications including word processing, spreadsheets, database, presentation software, email, and internet browser applications.
2. Install, configure, upgrade and troubleshoot computer hardware and associated peripheral devices and other system components.
3. Install, configure and troubleshoot system and device driver software and implement basic security measures.
4. Describe the origin, structure, and history of the Internet.
5. Install, configure, use, manage, and troubleshoot microcomputer operating systems.
6. Create and maintain database objects, store, retrieve and manipulate data stored in a relational database.
7. Demonstrate knowledge of networking technologies, networking hardware, and data communication concepts, protocols, and routing methods.
8. Install, configure, manage, deploy, monitor and troubleshoot Windows applications in a networked Windows environment.
9. Demonstrate knowledge of Project Management.
10. Perform customer service skills.

Information Technology Support Specialization Standards

1. Demonstrate proficiency in supporting Windows-based client and network computer systems.
2. Demonstrate proficiency in installing, configuring, deploying, and supporting desktop applications.
3. Demonstrate proficiency in supporting Windows users.
4. Perform help desk support activities.

Information Technology Analysis Specialization Standards

1. Perform computer information systems monitoring activities.
2. Perform computer information systems analysis activities.

Florida Gateway College
Learning Outcomes

Computer Office Specialist w/Programming Certificate

1. Perform data file activities.
2. Perform program design activities.
3. Perform coding activities.
4. Perform testing activities.
5. Perform implementation activities.

Florida Gateway College
Learning Outcomes

Computer Programming and Analysis AS Degree

1. Perform data file activities.
2. Perform analysis activities.
3. Perform program design activities.
4. Perform coding activities.
5. Perform testing activities.
6. Perform user-training activities.
7. Perform implementation activities.
8. Perform user support activities.
9. Perform evaluation activities.
10. Demonstrate professional development skills.
11. Demonstrate employability skills.
12. Demonstrate general workplace competencies.

Florida Gateway College
Learning Outcomes

Computer Support Specialist w/Programming Certificate

1. Perform data file activities.
2. Perform analysis activities.
3. Perform program design activities.
4. Perform coding activities.
5. Perform testing activities.
6. Perform user-training activities.
7. Perform implementation activities.
8. Perform user support activities.
9. Perform evaluation activities.
10. Demonstrate professional development skills.
11. Demonstrate employability skills.
12. Demonstrate general workplace competencies.

Florida Gateway College
Learning Outcomes

Graphic Design Technology AS Degree

1. Demonstrate appropriate communication skills.
2. Demonstrate team skills.
3. Demonstrate safe and efficient work practices.
4. Perform raster and vector based illustration and graphic development.
5. Formulate concepts/theory.
6. Apply design theories.
7. Demonstrate drawing technique
8. Demonstrate creative use of typography.
9. Create exhibit/display designs.
10. Create advertising layouts.
11. Demonstrate production skills.
12. Interpret printing processes.
13. Demonstrate knowledge of current industry standards, practices, and techniques.
14. Interpret photographic procedures.
15. Apply marketing/advertising principles.
16. Apply color theories.
17. Demonstrate industry level presentation procedures.
18. Design television graphics/motion graphics.
19. Utilize computer hardware, software, networks and peripherals for the production of electronic content.
20. Create electronic content.
21. Demonstrate appropriate math skills.
22. Demonstrate appropriate understanding of basic science.
23. Demonstrate employability skills.
24. Demonstrate an understanding of entrepreneurship.
25. Demonstrate proper writing skills.

Florida Gateway College
Learning Outcomes

Graphic Design Production Certificate

1. Demonstrate effective communication skills.
2. Demonstrate team skills.
3. Demonstrate safe and efficient work practices.
4. Perform raster and vector based illustration and graphic development.
5. Formulate concepts/theory.
6. Apply design theories.
7. Demonstrate creative use of typography.
8. Create advertising layouts.
9. Demonstrate production skills.
10. Interpret printing processes.
11. Demonstrate knowledge of current industry standards, practices, and techniques.
12. Interpret photographic procedures.
13. Apply color theories.
14. Demonstrate industry level presentation procedures.
15. Utilize computer hardware, software, networks and peripherals for the production of electronic content.
16. Create electronic content.
17. Demonstrate employability skills.

Florida Gateway College
Learning Outcomes

Network Infrastructure Certificate

1. Demonstrate understanding of networking fundamentals.
2. Demonstrate an understanding of routing concepts.
3. Demonstrate understanding of routing protocols.
4. Demonstrate router configuration skills.
5. Demonstrate an understanding of LAN design and concepts.
6. Demonstrate VLAN configuration skills.
7. Demonstrate an understanding of basic wireless concepts and configuration.
8. Demonstrate an understanding of wide area networks (WAN).
9. Demonstrate Wide Area Network configuration skills.
10. Demonstrate an understanding of network security.
11. Demonstrate an understanding of Remote Access.
12. Demonstrate an understanding of IP Addressing Services.
13. Demonstrate an understanding of network maintenance, support and troubleshooting.