

STATE COLLEGE OF FLORIDA, MANATEE-SARASOTA
ASSOCIATE & CERTIFICATE PROGRAMS (See pages 1 - 19)
BACCALAUREATE PROGRAMS (See pages 20 - 22)
Program Learning Outcomes

PROGRAM LEARNING OUTCOMES (PLOS) DEFINED:

Program learning outcomes are statements that describe what a student should know and what he or she should be able to do as a result of graduating from a program.

Accounting Applications Certificate, CIP Code: 0552030205, SCF Program #3001

Outcomes:

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

1. Prepare and use financial information about business organizations to support decision making.
2. Manage business information using appropriate software.
3. Demonstrate effective business communication skills.
4. Prepare governmental tax forms, including income, payroll, and sales taxes.
5. Consider the implications of professional values, ethics, and attitudes in business.
6. Demonstrate employability skills in accounting.

Accounting Technology A.S., CIP Code: 1552030200, SCF Program #2005

Outcomes:

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

1. Prepare and use financial information about business organizations to support decision making.
2. Manage business information using appropriate software.
3. Demonstrate effective business communication and collaboration skills.
4. Describe the significance of professional values, attitudes, legal and ethical issues in a business environment.
5. Demonstrate employability skills in accounting.
6. Prepare or develop strategic or organizational skills.
7. Prepare governmental tax forms, including income, payroll, and sales tax
8. Prepare individual tax forms.

Alternative Energy Systems Specialist Certificate, CIP Code: 0615050303, SCF Program #3002

Outcomes:

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

1. Demonstrate a fundamental understanding of electronics and electricity.
2. Demonstrate an understanding of industrial safety, health, and environmental requirements.
3. Characterize alternative energy sources and technologies.
4. Characterize the operation and performance of solar energy systems.
5. Apply policy, regulation and good business practices for alternative energy systems.

Automotive Services Management Technology A.S., CIP Code: 1615080300, SCF Program #2002

Outcomes:

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

1. Demonstrate an understanding of automotive mechanics.
2. Apply electrical and electronic skills in diagnosing/troubleshooting malfunctions of electrical/electronic components.
3. Demonstrate proficiency in servicing steering, suspension and wheel systems.
4. Demonstrate proficiency in servicing automotive brake systems.
5. Demonstrate proficiency in servicing cooling, air conditioning and heating services.

6. Demonstrate proficiency in engine performance service.
7. Demonstrate proficiency in automatic transmission/trans-axle service.
8. Demonstrate proficiency in servicing manual drive trains and axles.
9. Demonstrate proficiency in engine repair service.
10. Demonstrate proficiency in management skills.
11. Demonstrate appropriate communication skills.
12. Demonstrate appropriate math skills.
13. Demonstrate appropriate understanding of basic science.
14. Demonstrate employability skills.
15. Demonstrate an understanding of entrepreneurship.

Biotechnology A.S., CIP Code: 1626120100, SCF Program #2042

Outcomes:

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

1. Demonstrate communication skills.
2. Demonstrate safety skills.
3. Demonstrate basic laboratory skills.
4. Demonstrate regulatory compliance.
5. Demonstrate appropriate decision making and problem solving techniques.
6. Demonstrate specific laboratory skills.
7. Demonstrate quality assurance/control.
8. Maintain facility and equipment.
9. Demonstrate proper care/use of test animals/plants.

Business Administration & Management A.S., CIP Code: 1552020102, SCF Program #1706

Outcomes:

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

1. Prepare and use financial information about business organizations to support decision making.
2. Manage business information using appropriate software.
3. Demonstrate effective business communication skills.
4. Describe the significance of legal and ethical issues in a business environment.
5. Develop human resources skills.
6. Demonstrate employability skills.
7. Prepare or develop strategic or organizational skills.
8. Identify, classify and demonstrate management activities.
9. Participate in a capstone project.

Business Administration, Business Entrepreneurship A.S., CIP Code: 1552070307, SCF Program #2043

Outcomes:

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

1. Describe the entrepreneurial discovery processes.
2. Develop entrepreneurial concepts.
3. Develop entrepreneurial resources.
4. Develop entrepreneurial leadership skills.
5. Develop an entrepreneurial personal assessment.
6. Develop entrepreneurial personal management skills.
7. Describe effective business concepts.
8. Apply principles of communications.
9. Analyze methods to effectively manage conflict.

10. Develop excellent computer applications skills.
11. Analyze basic economic concepts.
12. Analyze cost-profit relationships.
13. Compare economic systems.
14. Analyze characteristics and functions of money.
15. Apply accounting principles and concepts to perform accounting activities.
16. Demonstrates money management skills.
17. Describe staffing functions.
18. Define morale and motivation skills.
19. Define human resources assessment.
20. Describe and conduct business records management.
21. Design information acquisition systems.
22. Plan and develop a marketing information management system.
23. Plan and develop promotional strategies.
24. Plan and develop pricing strategies.
25. Plan and develop selling strategies.
26. Plan and develop business systems.
27. Analyze business risk.
28. Analyze and identify legal considerations.
29. Identify and develop business plan.
30. Identify and plan controlling functions.

Business Administration, Marketing A.S., CIP Code: 1252140100, SCF Program #2007

Outcomes:

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

1. Demonstrate the human relations skills necessary for success in marketing occupations.
2. Demonstrate the ability to communicate skillfully.
3. Utilize effective selling techniques and procedures to the marketing of products and services.
4. Plan sales promotion techniques and procedures to the marketing of products and services.
5. Demonstrate knowledge of merchandising activities.
6. Perform merchandising math operations unique to products and services marketing.
7. Demonstrate a knowledge of basic economic principles.
8. Understand the importance of marketing operations.
9. Demonstrate knowledge and application of product and service technology.
10. Demonstrate employability skills.
11. Understand the role of the manager and the entrepreneur.
12. Develop a business plan.
13. Obtain technical assistance.
14. Plan the marketing strategy.
15. Locate the business.
16. Finance the business.
17. Deal with legal issues.
18. Comply with governmental regulations.
19. Manage the business.
20. Manage human resources.
21. Promote the business.
22. Manage sales.
23. Keep business records.
24. Understand the importance of management information systems.

25. Manage finances.
26. Manage customer credit and collections.
27. Protect the business.
28. Operate computers utilizing software appropriate to marketing.
29. Identify the use of technology in marketing.
30. Develop a marketing oriented website.
31. Identify and implement marketing support activities.
32. Manage an e-commerce marketing campaign.
33. Demonstrate the human relations skills necessary for success in promotion.
34. Demonstrate knowledge of the principles of promotion.
35. Demonstrate knowledge of advertising.
36. Demonstrate knowledge of display.
37. Demonstrate knowledge of public relations.
38. Demonstrate knowledge of personal selling.
39. Demonstrate knowledge of management functions.
40. Demonstrate an understanding of entrepreneurship.

Business Administration, Management A.S., CIP Code: 1552020102, SCF Program #2006

Outcomes:

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

1. Prepare and use financial information about business organizations to support decision making.
2. Manage business information using appropriate software.
3. Demonstrate effective business communication skills.
4. Describe the significance of legal and ethical issues in a business environment.
5. Develop human resources skills.
6. Demonstrate employability skills.
7. Prepare or develop strategic or organizational skills.
8. Identify, classify and demonstrate management activities.
9. Participate in a capstone project.

Business Management Certificate, CIP Code: 0552070101, SCF Program #3010

Outcomes:

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

1. Perform math computations.
2. Demonstrate basic computer skills.
3. Perform accounting activities.
4. Perform communication activities.
5. Develop human relations skills.
6. Demonstrate employability skills.
7. Develop leadership skills.
8. Perform decision making activities.
9. Identify, classify, and demonstrate management activities.
10. Demonstrate a basic understanding of legal and ethical issues in a business environment.

Computer Aided Design and Drafting Certificate, CIP Code: 0615130304, SCF Program #3017

Outcomes:

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

1. Demonstrate proficiency in advanced CAD commands.
2. Demonstrate proficiency in three-dimensional (3-D) drawings.
3. Demonstrate knowledge of using solid modeling software.

4. Demonstrate proficiency in digital engineering design fundamentals.
5. Demonstrate proficiency in digital modeling fundamentals.

Computer Information Technology A.S., CIP Code: 1511010305, SCF Program #2012

Outcomes:

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

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.
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5. Design, develop and maintain websites using web authoring tools and related applications.
6. Install, configure, use, manage, and troubleshoot microcomputer operating systems.
7. Create and maintain database objects, store, retrieve and manipulate data stored in a relational database.
8. Demonstrate knowledge of networking technologies, networking hardware, and data communication concepts, protocols, and routing methods
9. Install, configure, manage, deploy, monitor and troubleshoot Windows applications in a networked Windows environment
10. Demonstrate knowledge of Project Management.
11. Perform customer service skills.

Computer Programming and Analysis A.S., CIP Code: 1511020100, SCF Program #2013

Outcomes:

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

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 organizational computing workplace competencies.

Computer Programmer Certificate, CIP Code: 0511020200, SCF Program #3004

Outcomes:

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

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 general organizational computing workplace competencies.

Construction Management Technology A.S., CIP Code: 1646041200, SCF Program #2039

Outcomes:

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

1. Demonstrate effective communication, both orally and in writing.
2. Interpret drawings and documents.
3. Demonstrate knowledge of materials and methods of construction.
4. Recognize basic safety hazards on a construction site and standard prevention measures.
5. Interpret and apply basic principles of Architectural Engineering and Design.
6. Interpret and apply codes, regulations and technical literature.
7. Survey and assess construction sites.
8. Estimate basic quantities and costs for the bidding process in a construction project.
9. Perform office and administrative procedures.
10. Discuss basic principles of ethics in the construction industry.
11. Demonstrate appropriate math skills.
12. Demonstrate appropriate understanding of basic science.
13. Demonstrate employability skills.
14. Demonstrate an understanding of entrepreneurship.
15. Schedule and coordinate work sequence.
16. Learn to effectively manage a workforce.
17. Learn to manage subcontract and material supplier contracts.
18. Learn to effectively “buy out” a project as required.
19. Demonstrate the ability to use current technology related to the construction process.

Construction Management Technology Articulated A.S., CIP Code: 1646041200, SCF Program # 1739

Outcomes:

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

1. Demonstrate effective communication, both orally and in writing.
2. Interpret drawings and documents.
3. Demonstrate knowledge of materials and methods of construction.
4. Recognize basic safety hazards on a construction site and standard prevention measures.
5. Interpret and apply basic principles of Architectural Engineering and Design.
6. Interpret and apply codes, regulations and technical literature.
7. Survey and assess construction sites.
8. Estimate basic quantities and costs for the bidding process in a construction project.
9. Perform office and administrative procedures.
10. Discuss basic principles of ethics in the construction industry.
11. Demonstrate appropriate math skills.
12. Demonstrate appropriate understanding of basic science.
13. Demonstrate employability skills.
14. Demonstrate an understanding of entrepreneurship.
15. Schedule and coordinate work sequence.
16. Learn to effectively manage a workforce.
17. Learn to manage subcontract and material supplier contracts.
18. Learn to effectively “buy out” a project as required.
19. Demonstrate the ability to use current technology related to the construction process.

Criminal Justice Technology A.S., CIP Code: 1743010300, SCF Program #2014

Outcomes:

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

1. Describe and discuss the criminal justice system.
2. Describe and discuss the principles of criminology.
3. Identify criminal investigation procedure.
4. Describe and discuss juvenile delinquency.
5. Summarize law enforcement administration.
6. Demonstrate law enforcement operations procedures.
7. Describe and discuss the field of corrections.
8. Describe and discuss the field of criminal law.
9. Explain evidence and rules of evidence.
10. Demonstrate employability skills.
11. Identify issues relating to human diversity in the criminal justice system.

Dental Hygiene A.S., CIP Code: 1351060200, SCF Program #2029

Outcomes:

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

1. Demonstrate knowledge of the health care 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. Perform expanded functions for the dental hygienist.
13. Perform dental office procedures.
14. Identify, describe, maintain and utilize dental instruments and equipment.
15. Identify and perform dental and radiographic procedures.
16. Identify properties and uses, and manipulate dental materials.
17. Describe the legal and ethical responsibilities of the hygienist.
18. Identify and explain the formation and function of the head, neck, dental structures and tissues including pathological conditions of the human body in relation to the oral cavity.
19. Identify and explain principles of microbiology, disease transmission, disease prevention and perform principles of infection control procedures relating to dental care.
20. Identify and explain usage, administration, indications, contraindications, adverse reactions and precautions of pharmaceutical and anesthetic agents used in the treatment of dental disease and of those agents which may influence patient care while receiving dental treatment.
21. Describe principles and perform techniques of preventive dentistry.
22. Perform patient assessment.
23. Perform direct patient services.
24. Implement and evaluate community health interventions and research activities.

Digital Cinema A.S., CIP Code: 1650060213, SCF Program #2031

Outcomes:

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

1. Design and supervise the construction and installation of theatrical scenery to the specifications required in a scene for a film or video production.
2. Formulate strategies for audio recording and playback for film/video productions.
3. Synchronize dailies.
4. Supervise the hanging, focusing and circuiting of stage lights to the specifications required in lighting designs.
5. Function as part of a team on film/video productions.
6. Analyze and implement tasks for gripping.
7. Interpret and implement the audio requirements for film production.
8. Analyze and execute tasks for camera.
9. Analyze and execute tasks for film/video editing.
10. Analyze and execute for film lighting.
11. Demonstrate employability skills.
12. Demonstrate an understanding of entrepreneurship.

Digital Photography A.S., CIP Code: 1650060500, SCF Program #2044

Outcomes:

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

1. Perform laboratory skills.
2. Control exposures (SLR camera).
3. Take basic photographs (SLR camera and digital)
4. Operate various format cameras.
5. Finish photographs.
6. Apply lighting techniques.
7. Take studio photographs.
8. Reproduce photographic media.
9. Process color film.
10. Print color photographs.
11. Produce media presentations.
12. Demonstrate competencies required to manage a photographic business.
13. Take photographs for news media.
14. Apply quality control.
15. Demonstrate appropriate communication skills.
16. Demonstrate appropriate math skills.
17. Demonstrate appropriate understanding of basic science.
18. Demonstrate employability skills.
19. Demonstrate an understanding of entrepreneurship.

Early Childhood Education A.S., CIP Code: 1413121003, SCF Program #2009

Outcomes:

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

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.

Early Childhood Education and Early Intervention Certificate, CIP Code: 0419070904, SCF Program #3003

Outcomes:

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

1. Demonstrate knowledge of child growth and development.
2. Demonstrate knowledge of disabling conditions.
3. Demonstrate knowledge of early childhood education.
4. Guide physical development.
5. Guide cognitive language and literacy development.
6. Guide creative development.
7. Guide social, self-help and affective development.
8. Demonstrate knowledge of state and local rules and regulations.
9. Demonstrate knowledge of appropriate methods of guidance and classroom management.
10. Initiate and facilitate positive interaction with the child's family.
11. Demonstrate knowledge of safety, health and nutrition.
12. Identify and report child abuse and neglect in accordance with state regulations.
13. Demonstrate knowledge of community needs and resources.
14. Demonstrate professionalism.
15. Demonstrate various observation and recording methods.
16. Demonstrate use of classroom media.

Electronics Certificate, CIP Code: 0615030310, SCF Program #3018

Outcomes:

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

1. Demonstrate proficiency in laboratory practices.
2. Demonstrate proficiency in direct current (DC) circuits.
3. Demonstrate proficiency in direct current (DC) network analysis.
4. Demonstrate proficiency in alternating current (AC) circuits.
5. Demonstrate proficiency in alternating current (AC) network and coupled circuit analysis.
6. Demonstrate proficiency in basic digital circuits.
7. Demonstrate proficiency in technical recording and reporting.

Emergency Medical Services A.S., CIP Code: 1351090402. SCF Program #2038

Standards

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

1. Demonstrate knowledge of the health care 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. Demonstrate knowledge of the paramedic profession.
13. Describe EMS systems.
14. Describe medical/legal considerations.
15. Describe and demonstrate EMS communications systems.
16. Demonstrate rescue techniques and extrication.
17. Describe major incident response.
18. Describe and manage causes of stress.
19. Use medical terms specific to EMS.
20. Demonstrate general patient assessment and initial management.
21. Manage airway and ventilation.
22. Assess and manage shock.
23. Demonstrate knowledge of pharmacology and administer medications.
24. Assess and manage trauma emergencies.
25. Assess and manage burn injuries.
26. Assess and manage respiratory emergencies.
27. Assess and manage cardiovascular emergencies.
28. Assess and manage endocrine emergencies.
29. Assess and manage neurological emergencies.
30. Assess and manage digestive, genitourinary, and reproductive emergencies.
31. Assess and manage anaphylaxis emergencies.
32. Assess and manage toxicological, alcohol, and drug abuse emergencies.
33. Assess and manage infectious diseases.
34. Assess and manage environmental injuries.
35. Assess and manage geriatric emergencies.
36. Assess and manage pediatric emergencies.
37. Assess and manage the gynecologic patient.
38. Assess and manage the obstetric patient.
39. Assess and manage the neonate.
40. Assess and manage behavioral emergencies.
41. Demonstrate leadership and administrative skills basic to management emergency medical service systems.
42. Interpret federal, state and local laws as they apply to emergency medical service systems.
43. Demonstrate knowledge of operational and organizational structures of emergency medical service systems.
44. Demonstrate knowledge of psychological problems and stressors in emergency medical service employees and find appropriate solutions.
45. Demonstrate knowledge of materials and supplies used in emergency medical service systems.
46. Demonstrate knowledge of occupational safety and health.
47. Demonstrate knowledge of appropriate workloads for each employee.
48. Review, approve and monitor departmental capital and operational budgets.
49. Identify and apply legal reimbursement systems.
50. Comply with accreditation standards of governmental or governmental-appointed agencies and organizations.
51. Demonstrate computer literacy.
52. Demonstrate knowledge of basic teaching methods, learning and educational psychology.
53. Describe and discuss curriculum design and development.
54. Demonstrate appropriate measurement and evaluation skills.
55. Demonstrate mastery of required technical skills.
56. Demonstrate classroom management skills.
57. Demonstrate computer literacy.

Engineering Technology A.S., CIP Code: 1615000001, SCF Program #2040

Outcomes:

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

1. Demonstrate an understanding of industrial processes and material properties.
2. Generate and interpret computer-aided drawings.
3. Demonstrate a fundamental understanding of electronics and electricity.
4. Demonstrate an understanding of industrial safety, health, and environmental requirements.
5. Demonstrate proficiency in the use of quality assurance methods and quality control concepts.
6. Demonstrate proficiency in using tools, instruments and testing devices.
7. Demonstrate basic troubleshooting skills.
8. Demonstrate appropriate communication skills.
9. Demonstrate appropriate math skills.
10. Demonstrate an understanding of modern business practices and strategies.
11. Demonstrate employability skills.

Engineering Technology Support Specialist Certificate, CIP Code: 0615000007, SCF Program #3016

Outcomes:

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

1. Demonstrate an understanding of industrial processes and material properties.
2. Generate and interpret computer-aided drawings.
3. Demonstrate a fundamental understanding of electronics and electricity.
4. Demonstrate an understanding of industrial safety, health, and environmental requirements.
5. Demonstrate proficiency in the use of quality assurance methods and quality control concepts.
6. Demonstrate proficiency in using tools, instruments and testing devices.
7. Demonstrate basic troubleshooting skills.
8. Demonstrate appropriate communication skills.
9. Demonstrate appropriate math skills.
10. Demonstrate an understanding of modern business practices and strategies.
11. Demonstrate employability skills.

Fire Science Technology A.S., CIP Code: 1743020100, SCF Program #4003

Outcomes:

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

1. Explore the theories and fundamentals of how and why fires start, spread, and how they are controlled.
2. Demonstrate an understanding of the components of building construction that relate to fire and life safety.
3. Understand the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.
4. Understand the principles of the use of water in fire protection and how to apply hydraulic principles to analyze and to solve water supply problems.
5. Describe the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, and water supply for fire protection and portable fire extinguishers.
6. Discuss fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics, introduction to fire protection systems; and introduction to fire strategy and tactics.
7. Examine the organization and management of a fire department and the relationship of government agencies to the fire service.
8. Define risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and

emergency situations involving fire, EMS, hazardous materials, and technical rescue.

9. Discuss the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of court cases.
10. Analyze the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.
11. Identify the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes.
12. Demonstrate advanced technical knowledge on rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and testifying.
13. Comprehend basic chemistry relating to the categories of hazardous materials including problems of recognition, reactivity, and health encountered by firefighters.

Fire Science Administration, Advanced Technical Certificate, CIP Code: 0743020202, SCF Program #3021

Outcomes:

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

1. Explore the theories and fundamentals of how and why fires start, spread, and how they are controlled.
2. Demonstrate an understanding of the components of building construction that relate to fire and life safety.
3. Understand the principles of the use of water in fire protection and how to apply hydraulic principles to analyze and to solve water supply problems.
4. Examine the organization and management of a fire department and the relationship of government agencies to the fire service.
5. Analyze the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.

Graphic Design Support Certificate, CIP Code: 0611080300, SCF Program #3021

Outcomes:

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

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

Graphics Design Technology A.S. CIP Code: 1611080300, SCF Program #2033

Outcomes:

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

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 drawing techniques.
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.

Industrial Management Technology, Hospitality Mgt., Culinary Arts A.S., CIP Code: 1612050400, SCF Program #2035

Outcomes:

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

1. Demonstrate proficiency in employability skills.
2. Demonstrate proficiency in applying communication and human relations skills.
3. Demonstrate the application of mathematics commonly used in the culinary industry.
4. Identify economic and marketing principles.
5. Identify marketing and business fundamentals.
6. Identify organization and functions of the culinary industry.
7. Develop and implement sales and marketing strategies.
8. Maintain an accounting and information system.
9. Demonstrate equipment operation and maintenance skills.
10. Analyze laws that affect the culinary industry.
11. Operate liability and risk identification program.
12. Demonstrate skills in food service and beverage sanitation and safety.
13. Plan and maintain purchasing and receiving procedures.
14. Demonstrate skills in food service and beverage management services.
15. Describe all aspects of entrepreneurship.
16. Solve problems and make informed decisions.
17. Recognize, identify and demonstrate usage of foods.
18. Demonstrate skill in preparing foods for cooking.
19. Demonstrate methods of cooking.
20. Perform various types of food services.
21. Apply principles of nutrition to food preparation.
22. Demonstrate skill using computers and software used in marketing.
23. Identify the roles of management and supervisory personnel.
24. Conduct emergency procedures.

Information Technology Analysis Certificate, CIP Code: 0511010312, 3015

Outcomes:

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

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. Demonstrate knowledge of networking technologies, networking hardware, and data communication concepts, protocols, and routing methods.
5. Demonstrate knowledge of Project Management.
6. Perform customer service skills.
7. Perform computer information systems monitoring activities.
8. Perform computer information systems analysis activities.

Network Server Administration Certificate, CIP Code: 0511100112, SCF Program #3006

Outcomes:

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

1. Demonstrate understanding of computer network maintenance and support.
2. Demonstrate understanding of networking fundamentals.
3. Demonstrate understanding of operating system concepts and practices.
4. Demonstrate understanding of network security fundamentals.
5. Demonstrate an understanding of the directory infrastructure and installation.
6. Demonstrate an understanding of group policy.
7. Demonstrate an understanding of implementing sites to manage active directory replication.
8. Demonstrate an understanding of maintaining directory availability.
9. Demonstrate how to install and deploy a server operating system.
10. Demonstrate how to provide infrastructure services.
11. Demonstrate how to provide file and print services.
12. Demonstrate how to provide remote and wireless network access.
13. Demonstrate how to monitor and maintain network servers and services.
14. Demonstrate an understanding of securing data transmission and authentication.
15. Demonstrate an understanding of planning for business continuity and high availability.
16. Demonstrate workplace-readiness skills.

Interactive Media Production Certificate, CIP Code: 0611080304, SCF Program #3022

Outcomes:

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

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. Demonstrate knowledge of current industry standards, practices, and techniques.
11. Interpret photographic procedures.
12. Apply color theories.
13. Demonstrate industry level presentation procedures.

14. Utilize computer hardware, software, networks and peripherals for the production of electronic content.
15. Create electronic content.
16. Demonstrate employability skills.

Marketing Certificate, CIP Code: 0252140111, SCF Program #3011

Outcomes:

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

1. Demonstrate the human relations skills necessary for success in promotion.
2. Demonstrate the ability to communicate skillfully.
3. Perform merchandising math operations unique to products and services marketing.
4. Demonstrate knowledge of the principles of promotion.
5. Demonstrate knowledge of advertising.
6. Demonstrate knowledge of display.
7. Demonstrate knowledge of basic economic principles.
8. Demonstrate knowledge of public relations.
9. Demonstrate knowledge of personal selling.
10. Demonstrate knowledge of management functions.
11. Demonstrate an understanding of entrepreneurship.

Network Systems Technology A.S., CIP Code: 1511100111, SCF Program #2027

Outcomes:

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

1. Demonstrate proficiency in basic computer network maintenance and support.
2. Demonstrate a fundamental understanding of computer networking.
3. Demonstrate an understanding of common operating system concepts and associated practices.
4. Demonstrate fundamental proficiency in network security essentials.
5. Demonstrate fundamental proficiency in network security essentials.
6. Demonstrate a basic understanding of project management concepts and processes.

Nursing, Nursing Transition A.S., CIP Code: 1351380100, SCF Program #s 2029, 2025

Outcomes:

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

1. Demonstrate knowledge of the health care 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. Demonstrate competencies in the core components of professional nursing-professional behavior
13. Demonstrate competencies in the core components of professional nursing-communication
14. Demonstrate competencies in the core components of professional nursing-assessment
15. Demonstrate competencies in the core components of the professional nurse-clinical decision making
16. Demonstrate competencies in the core components of professional nursing-caring intervention
17. Demonstrate competencies in the core components of professional nursing- teaching and learning

18. Demonstrate competencies in the core components of professional nursing-collaboration
19. Demonstrate competencies in the core components of professional nursing-managing care

Occupational Therapy Assistant A.S., CIP Code: 1351080300, SCF Program #2020

Outcomes:

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

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. Demonstrate ability to communicate and use interpersonal skills effectively for the occupation.
13. Demonstrate an understanding of and apply health-illness-health concepts.
14. Analyze and apply learned skills in specific life tasks and activities.
15. Apply occupational therapy principles in patient/client relationship.
16. Demonstrate knowledge of ethics related to occupational therapy assistants.
17. Transport patients.
18. Discuss the etiology, progression, management, and prognosis of physical, emotional, and environmental stresses and trauma.
19. Discuss the effect of stress on optimal human functioning.

Paralegal/Legal Assisting A.S., CIP Code: 1722030200, SCF Program #2018

Outcomes:

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

1. Demonstrate knowledge of the ethical and professional standards of the paralegal.
2. Demonstrate ability to utilize the law library and apply knowledge to legal writing.
3. Demonstrate knowledge of tort law, constitutional law, and criminal law concepts and their application to factual situations.
4. Demonstrate knowledge of all phases of trial practice and procedure.
5. Demonstrate knowledge of real property law and its application to real property transactions.
6. Demonstrate knowledge of estate planning and probate administration concepts and their application to probate procedures.
7. Demonstrate knowledge of the fundamental principles of the law of business organizations.
8. Demonstrate knowledge of the fundamental principles of contract law including the Uniform Commercial Code.
9. Demonstrate knowledge of, and ability to perform, litigation techniques and procedures.
10. Demonstrate knowledge of management techniques and procedures.
11. Demonstrate knowledge of family law and procedure.
12. Demonstrate employability skills.
13. Demonstrate an understanding of entrepreneurship.

Paralegal/Legal Assisting, Advanced Technical Certificate, CIP Code: 1722030200, SCF Program #2018

Outcomes:

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

1. Demonstrate knowledge of the ethical and professional standards of the paralegal.

2. Demonstrate ability to utilize the law library and apply knowledge to legal writing.
3. Demonstrate knowledge of tort law, constitutional law, and criminal law concepts and their application to factual situations.
4. Demonstrate knowledge of all phases of trial practice and procedure.
5. Demonstrate knowledge of real property law and its application to real property transactions.
6. Demonstrate knowledge of estate planning and probate administration concepts and their application to probate procedures.
7. Demonstrate knowledge of the fundamental principles of the law of business organizations.
8. Demonstrate knowledge of the fundamental principles of contract law including the Uniform Commercial Code.
9. Demonstrate knowledge of, and ability to perform, litigation techniques and procedures.
10. Demonstrate knowledge of management techniques and procedures.
11. Demonstrate knowledge of family law and procedure.
12. Demonstrate employability skills.
13. Demonstrate an understanding of entrepreneurship.

Physical Therapist Assistant A.S., CIP Code: 1351080601, SCF Program #2022

Outcomes:

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

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. Describe anatomical structure, function and dysfunction of the human body related to the practice of physical therapy.
13. Assist the physical therapist with various treatments/procedures.
14. Demonstrate ethical and legal practice as a physical therapist assistant.
15. Respond to patient's needs as reflected in the Patient's Bill of Rights.
16. Demonstrate safe administration of all physical agents.
17. Demonstrate use of exercise, assistive/supportive devices and specialized equipment.
18. Perform routine maintenance of equipment.
19. Disinfect and sterilize materials and equipment.
20. Respond to acute changes in physiological state.
21. Teach other health care providers, patients and families to perform selected treatment procedures and functional activities.
22. Identify architectural barriers.
23. Interact with patients and families in a manner which provides desired psycho-social support.
24. Define scope of practice.
25. Describe basic concepts related to the health care system including multidisciplinary team approach, quality care, governmental agencies, private sector, role of other health care providers, health care facilities, issues and problems.
26. Identify basic principles of levels of authority and responsibility, planning, time management, supervisory process, performance evaluations and fiscal consideration (provider and consumer).

Radiography; Radiography ARRT Articulated, A.S., CIP Code: 1351090700, SCF Program #s 2023, 2041

Outcomes:

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

1. Demonstrate knowledge of the health care 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. Techniques to accurately demonstrate anatomical structures on a radiograph or another imaging receptor.
Apply knowledge of anatomy, physiology, positioning and radiographic
13. Evaluate radiographic images for appropriate positioning and image quality.
Continued---
14. Apply the principles of radiation protection for the patient, self and others.
15. Anticipate and provide patient care and comfort.
16. Perform quality assurance procedures.
17. Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
18. Demonstrate proper operation of radiographic equipment and accessories.

Studio Art, A.S., CIP Code: 1611080300, SCF Program #2045

Outcomes:

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

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 drawing techniques.
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.

Teacher Certification Program, Advanced Technical Certificate, CIP Code: N/A, SCF Program #4005

Outcomes:

All of Florida's community colleges and four state universities have state-approved Educator Preparation Institutes through which alternative certification programs are delivered for baccalaureate degree holders. Educator Preparation Institutes (EPIs) provide an alternate route to teacher certification for mid-career professionals and college graduates who were not education majors. Students with a baccalaureate degree from a regionally accredited college or university may enter an EPI program, which consists of competency-based instruction, to prepare to take the Florida Teacher Certification Exam (FTCE) in Professional Preparation and Education Competence. Students must also demonstrate General Knowledge and Subject Area Competence. (General Knowledge and Subject Area instruction is not covered by EPI programs; subject area varies, depending on student's baccalaureate preparation.)

These programs provide professional preparation for career-changers and recent college graduates who do not already possess professional certification. These programs must also undergo an initial and continued approval process based on candidate performance within the program and during the candidate's first year of teaching. For further details, the following Florida Department of Education links will provide more information:

<http://www.teachinflorida.com/Preparation/EducatorPreparationInstitutes/tabid/187/Default.aspx>

<http://www.fldoe.org/bii/curriculum/sss/>

BACCALAUREATE PROGRAMS
Program Learning Outcomes

Early Childhood Education, B.S., SCF Program #8005

Outcomes:

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

1. Exhibit behavior that demonstrates a belief that all individuals can develop, learn, and make positive contributions to society.
2. Provide the student with the necessary content knowledge and professional knowledge to support and enhance student development and learning, including meeting student needs across physical, social psychological and intellectual contexts, as demonstrated by varied, evidence-based strategies, including technology (by providing each student with IPAD).
3. Provide the necessary knowledge and skills to conduct and interpret appropriate assessments and to use the information from assessments to develop and adapt instruction that meets learners' need and maintain their engagement.
4. Provide the student with a knowledge base and skills appropriate for further education at the graduate level.
5. Exhibit behavior that demonstrates a belief that continuous inquiry and reflection can improve professional practice.
6. Facilitate, view and conduct themselves as professionals, providing leadership in their chosen field and communicating effectively their student stakeholders.

Energy Technology Management, B.A.S., SCF Program #8001

Outcomes:

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

1. Demonstrate understanding of the different types of renewable energy technologies.
2. Formulate energy conservation plans.
3. Evaluate methods to reduce emissions.
4. Critique current energy regulation.
5. Analyze heating, ventilation, air conditioning and refrigeration processes.
6. Evaluate energy efficient building practices.
7. Evaluate how leadership influences organization performance.
8. Develop a project using project management skills.
9. Employ quality practices such as six sigma and process improvement.
10. Describe characteristics of successful leadership and management.

Health Services Administration, B.S., SCF Program #8002

Outcomes:

Upon successful completion of the BAS, HSA program, the graduate as a Member of the Discipline, Manager/Coordinator of Care will be able to:

1. Evaluate theories and concepts impacting the profession.
2. Analyze and employ the proper ethical and legal standards required in advocating for patients and interacting with professionals.
3. Differentiate and employ effective communications needed for patient, family, and staff interaction, as well as problem solving, critical reasoning and conflict resolution.
4. Demonstrate the ability to collect and record data, as well as conduct research and implement quality improvement measures, and analyze information from a variety of sources in order to formulate sound decisions and program of action ensuring safe humanistic high quality care.
5. Analyze critical incidents utilizing evidence based practice and take immediate steps to resolve the situation, in collaboration with others.

6. Employ leadership concepts and skills in prioritizing, designing, coordinating, and managing professional responsibilities.
7. Comprehend the influence of health care policy, finance, and regulatory environments on professional practice.

Homeland Security, B.A.S., SCF Program #8003

Outcomes:

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

1. Apply the knowledge, skill, attitudes, and values necessary for success in management in a variety of governmental and nongovernmental settings.
2. Lead and supervise a group of managers and /or employees in both governmental and nongovernmental settings.
3. Demonstrate the knowledge necessary to critically evaluate and manage the day to day safety operations of an agency or company.
4. Discuss the needs in a community for coordinated safety action plans, and know how to create and manage such plans.
5. Demonstrate the ability to coordinate and manage a budget.
6. Exhibit knowledge through the ability to apply the National Incident Management System to specific situations.
7. Demonstrate appropriate professional ethics as a manager and public employee.
8. Integrate appropriate technology into the leadership and management of governmental and nongovernmental work settings.
9. Understand the many forms of terrorism and analyze how to protect an agency or company from external threats.
10. Direct and coordinate recovery efforts after a disaster.

International Business and Trade, B.A.S., SCF Program ##8006

Outcomes:

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

1. Identify and understand the challenges and opportunities of operating a business or nongovernmental organization in international settings.
2. Apply the knowledge, skill, attitudes, and values necessary for success in management in a variety of domestic and international settings.
3. Analyze global opportunities and problems facing local firms and recommend solutions and strategy.
4. Effectively participate in team projects with a high degree of cultural acumen.
5. Understand the basics of the global supply chain and its corollary financial transactions.
6. Take into account the impact of various economic, legal, cultural, geographical, and political systems on international business.
7. Understand the importance of compliance with relevant national and international law, legislation, policies, and regulations.
8. Develop and apply the values of business ethics and international corporate responsibility.
9. Understand how to gather, process, and interpret data used to support international business metrics.
10. Lead in the importing and exporting functions of a business.

Nursing, B.S., SCF Program #8019

Outcomes:

Upon successful completion of the Bachelor of Science in Nursing program, the graduate as a Provider of Care, Member of the Discipline, Manager/Designer and Coordinator of Care will be able to:

1. Articulate the holistic nature of patient health and assume the role of the professional nurse in assessment, education, and care.
2. Evaluate theories and concepts impacting professional nursing.
3. Analyze and employ proper techniques in conducting physical assessment, health promotion and disease prevention, information management, and patient care technology.

4. Analyze and employ the proper ethical and legal standards required in advocating for patients and interacting with professionals.
5. Differentiate and employ effective communications needed for patient assessment, patient education and staff interaction, as well as problem solving, critical reasoning, and conflict resolution.
6. Demonstrate the ability to collect and record data, as well as conduct research and implement quality improvement measures, and analyze information from a variety of sources in order to formulate sound decisions and program of action ensuring safe, humanistic, and high quality care.
7. Analyze critical incidents utilizing evidence-based practice and take immediate steps to resolve the situation, in collaboration with others.
8. Employ leadership concepts and skills in prioritizing, designing, coordinating, and managing patient care and professional responsibilities.
9. Comprehend the influence of health care policy, finance, and regulatory environments on professional nursing practice.

Public Safety Administration, B.A.S., SCF Program #8004

Outcomes:

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

11. Apply the knowledge, skill, attitudes, and values necessary for success in management in a variety of governmental and nongovernmental settings.
12. Lead and supervise a group of managers and /or employees in both governmental and nongovernmental settings.
13. Demonstrate the knowledge necessary to critically evaluate and manage the day to day safety operations of an agency or company.
14. Discuss the needs in a community for coordinated safety action plans, and know how to create and manage such plans.
15. Demonstrate the ability to coordinate and manage a budget.
16. Exhibit knowledge through the ability to apply the National Incident Management System to specific situations.
17. Demonstrate appropriate professional ethics as a manager and public employee.
18. Integrate appropriate technology into the leadership and management of governmental and nongovernmental work settings.
19. Understand the many forms of terrorism and analyze how to protect an agency or company from external threats.
20. Direct and coordinate recovery efforts after a disaster.

Technology Management, B.A.S., SCF Program #8007

Standards

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

1. Apply the theoretical and practical aspects of technology management to develop strategies empowering organizations to achieve strategic goals through technology projects.
2. Understand how to gather, process, and interpret data used to support business metrics.
3. Demonstrate the ability to make reasoned, ethical judgments based on community and professional standards for ethical behavior in technology management.
4. Appraise leadership styles from the perspectives of the role of the project leader and contributor.
5. Assess the leadership effectiveness in organizations managed by function, environment, and projects.
6. Demonstrate an understanding of the organizational challenges associated with globalization, ethics and social responsibility, changing technology and employee diversity.
7. Evaluate the management of technology projects in the context of managing complexity, managing change, and optimizing business performance.