Florida Institute of Technology's application submitted in accordance with Code of Maryland Regulations 13B.02.01.08I 'Further requests by instiutuion' that has received extended approval

Florida Institute of Technology

High Tech with a Human Touch™

April 1, 2016

Monica Wheatley, M.S.
Associate Director - Collegiate Affairs
Maryland Higher Education Commission
6 N. Liberty Street, 10th Floor
Baltimore, MD 21201

Re: Add-on Proposals for Logistics Management and Technology Management Programs

Florida Institute of Technology (FIT) recently received extended approval for graduate and post-graduate programs at the Southern Maryland Higher Education Center (SMHEC). FIT is pleased to submit herein add-on proposals for a B.S. in Logistics Management, M.S. in Logistics Management, M.S. in Management with a concentration in Logistics Management, and a M.S. in Technology Management at the SMHEC Site pursuant to COMAR 13B.02.01.06.

Please find attached:

- New Program Proposals, B.S. in Logistics Management, M.S. in Logistics Management, M.S. in Management with a concentration in Logistics Management, and a M.S. in Technology Management
- Catalog Descriptions for each of these programs
- Support Letter of Approved Programs from Southern Maryland Higher Education Center
- MHEC Renewal Authorization Letter, SMHEC Site 2015-2020

No program fees are required per COMAR 13B.02.03 p8 paragraph C: "An institution of higher education requesting a program review action related to a program offered at a regional higher education center is exempt from payment of an academic program review fee."

We thank you for your assistance and look forward to your consideration.

Sincerely,

Robert R Schaller

Dr. Robert R. Schaller, Sr.
Director, Southern Maryland Sites
21803 A Three Notch Road
Lexington Park, MD 20653
(301) 862-1004

cc: Dr. Theodore Richardson

Educational Need

A-1: New Programs – Southern Maryland Higher Education Center

(d) List of new programs

Program Title	Degree	Mode of Instruction	Total Credit Hours	Offered on Main Campus Yes/No
Logistics Management	B.S.*	Classroom	60	Yes
Logistics Management	M.S.	Classroom/Online	33	Yes
Management with concentration in Logistics Management	M.S.	Classroom/Online	33	Yes
Technology Management	M.S.	Classroom/Online	30	Yes

* Bachelor Degree Completion 3rd and 4th year through articulation with College of Southern Maryland A.S. in Business Administration

(e) See University Catalog for program information, see http://catalog.fit.edu/

(f) Brief description of student population to be served by the proposed new programs

Florida Institute of Technology is committed to supporting a diverse community of learners, which includes offering career-relevant programs that advance students in their professions and in their communities. The Department of Extended Studies of the Nathan M. Bisk College of Business is particularly interested in serving the needs of the professional adult learner, and often those connected with a military activity. This student population can include active duty military, reservists, veterans, civil servants, and government service contractors along with people from the broader community. The proposed new programs are in response to a growing local demand to increase the knowledge, skills and abilities of personnel in the fields of Logistics Management and Technology Management. Program descriptions in the University Catalog provide explanations of the student population to be served by the program along with the opportunities for academic and professional achievement. See also A-2: Educational Need for each proposed new program.

A-1a: Program Descriptions

Bachelor of Science in Logistics Management
The Bachelor of Science in Logistics Management is offered as an undergraduate degree-completion program to students who hold an associate degree (minimum of 61 semester credit hours) or the equivalent in transferable credit from a regionally accredited institution. The logistics management major is suited to military and government civilian personnel as well as those working or interested in the private sector who will continue through the master's degree program in logistics management. The program curriculum will assist students in the determination of detailed requirements, within available or allocated resources, for funds, manpower, facilities, equipment, supplies, and services; the design and development, procurement, production, storage, distribution, maintenance, transportation, utilization, and disposal of material; the procurement or design and construction, operation, maintenance, and disposal of facilities; the acquisition and training of personnel; and the acquisition or furnishing of such services as communications and those required to meet personnel needs.

Master of Science in Logistics Management
The Master of Science in Logistics Management prepares graduates to manage an organization's flow of goods, resources and information from the point of origination to the intended destination in order to meet the needs of customers, suppliers and stakeholders. Logistics management involves systematic coordination and integration between various modes of operation including air transportation, container ship and rail for different organizations, entities and stakeholders. Trained, knowledgeable logistics managers are a vital part of every organization. Managers with a logistics management master's degree position themselves for diverse job opportunities in every industry including business logistics, military logistics, warehousing logistics and humanitarian assistance and disaster relief.

Master of Science in Management - Logistics Management
The Master of Science in Management - Logistics Management prepares graduates to manage an organization's logistics resources from the point of origination to the intended destination in order to meet the needs of customers, suppliers and stakeholders. This management degree emphasizes essential management principles in leadership; human resources and development; finance; organizational behavior, planning, development, and communications. Logistics management electives focus learning in various modes of operation including air transportation, container ship and rail for different organizations, entities and stakeholders. Trained, knowledgeable logistics managers are a vital part of every organization.

Master of Science in Technology Management
The Master of Science in Technology Management is designed for professionals from diverse backgrounds seeking advanced business skills with technology expertise to become senior-level experts able to meet the management challenges of a global organization. The core competencies of the masters in technology management degree program include global information technology, statistics, innovation and information management, business strategy, legal and social outcomes based on technological advances and other topics related to technology management. The objective of the masters in technology management degree program is to create individuals who excel in global leadership and who understand technology,

how technology benefits society and how to create a competitive advantage for organizations within the for-profit, nonprofit, and government sectors that include the military.

A-2: Educational Need

B.S. Logistics Management

(a) What critical and compelling Regional or Statewide (Maryland) need and demand does your proposed program meet?

FIT is proposing the addition of three logistics management programs at the Southern Maryland Higher Education Center (SMHEC) including the B.S. in Logistics Management, a degree-completion option. There are two primary drivers for this new program offering. The first is the continued occupational growth anticipated in the commercial logistics field in Southern Maryland as major projects such as Dominion Cove Point Liquefied Natural Gas (LNG) Export Project are constructed in the next 5-10 years. The clustering effect that will occur as this multi-billion dollar project unfolds will require additional levels of logistics, transportation and supply chain jobs.

The second driver is an acute need to upgrade the academic skill levels of a large Navy Logistics employee population at NAS Patuxent River, affecting at least two-hundred workers. These two distinct needs are explained below.

(1) Occupational Need

In the commercial field, the field of Logistics encompasses several important functions dealing with transportation and supply chain industries, with a focus on cargo handling; supply chain logistics management; airport, seaport, rail, and trucking operations; related technologies and security requirements. Maryland is expecting strong employment growth in Transportation and Warehousing through 2022 as shown in the table below. While most of these jobs may not require college degrees, the increasing amount of specialized knowledge required for efficient lean operations methods places greater demands on effective management of these functions.

Industry Sector	2012	2022	Change	% Chg
All Transportation and Warehousing	86,429	92,857	6,428	7.4%
Transit and Ground Passenger Transportation	19,833	23,300	3,467	17.5%
Warehousing and Storage	11,548	14,812	3,264	28.3%

Source: Maryland Department of Labor, Licensing and Regulation, Maryland Occupational Projections 2012 – 2022, Maryland Industry Projections
http://www.dllr.state.md.us/lmi/iandoproj/industry.shtml (updated December 3, 2014)

Southern Maryland

While a wide range of graduate and post-graduate programs are available in Southern Maryland, there continues to be a lack of workforce-relevant undergraduate programs. Realizing this and other challenges, the Southern Maryland Higher Education Council was established by the Maryland General Assembly in 2011 (see Chapter 622 of the House Bill 1347; amended in 2013) to examine the needs for higher education in the tri-county Southern

Maryland region, identify any unmet areas of need, and, in line with its findings, develop recommendations and strategies, both short- and long-term, to improve access to higher education in Southern Maryland's tri-county region. The Southern Maryland Higher Education Council Final Report was issued December 2, 2013, see http://msa.maryland.gov/megafile/msa/speccol/sc5300/sc5339/000113/018000/018954/unrestricted/20140030e.pdf One of its major findings is the lack of bachelor's degree options available in the region:

"Non-traditional students, including working adults, seeking a bachelor's degree represent the greatest area of unmet demand in the region, with the disciplines of business/management, engineering, education, computer science, and health care in particular demand." (p4)

To help achieve this vision, the Council produced the following key recommendation for the region:

"1. Academic programs, particularly those offered at the undergraduate level, should be expanded and targeted at the high demand areas of business/management, engineering, education, computer science, and health care. Five to seven million dollars in annual funding should be sought from the state legislature to create incentives for institutions to bring new or expanded programs to the region. At the same time, a one-time, comprehensive study to help identify the interest in and market for additional bachelor's degree options in the region should also be undertaken." (p5)

Recognizing this need, FIT and the College of Southern Maryland (CSM), a multi-campus community college in Charles, Calvert and St. Mary's Counties, have developed a partnership to deliver a new local Bachelor's degree option, the B.S. in Logistics Management. The two institutions recently signed a program articulation. Following is the cover page from the agreement.

Enrollments	699	598

A.S. Business Administration: Technical Management

Term	Fall 2013	Spring 2014
Enrollments	62	53

There has also been a solid pipeline of graduates from these two transfer programs as follows:

Transfer Program and Year	2010	2011	2012	2013	2014
A.S. Business Administration	93	81	97	112	112
A.S. Business Administration: Technical Mgmt	6	2	9	5	8

Source: College of Southern Maryland, "2013/2014 Fact Book"
http://www.csmd.edu/pier/pdf/fact_book/fact_book_2013-2014.pdf

Defense Sector - DoD and DoN Logistics Management Specialist (GS-346 job series)

While there is continued growth expected in the commercial logistics workforce, there is a concentration of specialized professional logisticians at NAS Patuxent River that carries out mission-essential logistics support functions. NAWCAD 6.0 is the Logistics and Industrial Operations Competency that employs upwards of 900 professional logisticians at NAS Patuxent. NAWCAD leadership has expressed great interest in upgrading the knowledge, skills and abilities of the existing Logistics workforce. A primary reason for this is that unlike other NAVAIR competencies such as Contracts, the Logistics Management Specialist does not carry a positive degree requirement. It is one of few professional classifications without this requirement:

Minimum Requirements for Logistics Management Specialist GS-346 – Minimum requirements for this position include strong communication and time management skills, with the ability to work well in a team environment. Must have U.S. citizenship and the ability to obtain and maintain the appropriate security clearance. (Source:
http://www.navair.navy.mil/jobs/jobdescriptions.html)

The makeup of the NAWCAD Logistics workforce consists of many former enlisted military with significant experience levels but lacking academic degrees. There are also many others in the civilian ranks who entered their positions without an academic degree. Presently, approximately 350 professional logisticians at Pax do not hold a 4yr degree. Almost 200 of these have completed some college coursework including more than 50 who hold Associate's degrees. Working closely with Logistics leadership, it is estimated that there is a potential demand for 200 employees to pursue completion of the B.S. in Logistics Management.

Different than in the commercial field, the Navy Logistics Management Specialist focuses on planning, development, implementation and management of effective and affordable weapons, material, or information system support strategies during the acquisition and operational phases of the system's life cycle. The role as a logistician is an integral part of NAVAIR's

capability to deliver and support airborne weapon systems that are technologically superior and readily available to Navy and Marine forces operating in harm's way across the globe.

The performance of this work requires the application of broad knowledge of a wide variety of logistics support activities. These include, but are not limited to the determination of detailed requirements, within available or allocated resources, for funds, manpower, facilities, equipment, supplies, and services; the design and development, procurement, production, storage, distribution, maintenance, transportation, utilization, and disposal of material; the procurement or design and construction, operation, maintenance, and disposal of facilities; the acquisition and training of personnel; and the acquisition or furnishing of such services as communications and those required to meet personnel needs.

(2) Societal Need – N/A

(b) If similar programs exist in the State, what are the similarities or differences in your program in terms of the degrees awarded, the areas of specialization, and the specific academic content of the programs?

There are no similar Logistics undergraduate degree program offerings available in Southern Maryland or throughout the state of Maryland.

There are two on-campus undergraduate programs offered in the field of Supply Chain Management. University of Maryland College Park offers the B.S. in Supply Chain Management, and Morgan State University offers the B.S. in Services & Supply Chain Management. As previously discussed, the field of the proposed FIT program in Logistics Management shares some similarities in academic content. However, there are significant differences in the emphasis and specialization of the curriculum. Logistics Management addresses a career specialty found more in the defense sector whereas Supply Chain Management is geared more toward commercial sectors. Another key differences is in geographic markets served. College Park is 70 miles north of Lexington Park while Baltimore is at least 90 miles north of Lexington Park, MD.

(c) Is a Maryland employer sponsoring/supporting the application for the program to be offered at this location? **No**

A-2: Educational Need

M.S. Logistics Management

(a) What critical and compelling Regional or Statewide (Maryland) need and demand does your proposed program meet?

FIT is proposing the addition of three logistics management programs at the Southern Maryland Higher Education Center (SMHEC) including the M.S. in Logistics Management. This degree is being offered as one of two complementary follow-on graduate programs to the proposed B.S. in Logistics Management. Much of the rationale for the M.S. Logistics Management program is the same as in the proposed undergraduate program, though the potential pool of students may be smaller.

There are two primary drivers for this new program offering. The first is the continued occupational growth anticipated in the commercial logistics field in Southern Maryland as major projects such as Dominion Cove Point Liquefied Natural Gas (LNG) Export Project are constructed in the next 5-10 years. The clustering effect that will occur as this multi-billion dollar project unfolds will require additional levels of logistics, transportation and supply chain jobs.

The second driver is an acute need to advance the anticipated upgraded academic skill levels of a large Navy Logistics employee population at NAS Patuxent River, affecting many workers. These two distinct needs are explained below.

(1) Occupational Need

In the commercial field, the field of Logistics encompasses several important functions dealing with transportation and supply chain industries, with a focus on cargo handling; supply chain logistics management; airport, seaport, rail, and trucking operations; related technologies and security requirements. Maryland is expecting strong employment growth in Transportation and Warehousing through 2022 as shown in the table below. While most of these jobs may not require college degrees, the increasing amount of specialized knowledge required for efficient lean operations methods places greater demands on effective management of these functions.

Industry Sector	2012	2022	Change	% Chg
All Transportation and Warehousing	86,429	92,857	6,428	7.4%
Transit and Ground Passenger Transportation	19,833	23,300	3,467	17.5%
Warehousing and Storage	11,548	14,812	3,264	28.3%

Source: Maryland Department of Labor, Licensing and Regulation, Maryland Occupational Projections 2012 – 2022, Maryland Industry Projections
http://www.dllr.state.md.us/lmi/iandoproj/industry.shtml (updated December 3, 2014)

Defense Sector - DoD and DoN Logistics Management

Referencing A-2: Educational Need for the B.S. Logistics Management, while there is continued growth expected in the commercial logistics workforce, there is a concentration of specialized professional logisticians at NAS Patuxent River that carries out mission-essential logistics support functions. NAWCAD 6.0 is the Logistics and Industrial Operations Competency that employs upwards of 900 professional logisticians at NAS Patuxent. NAWCAD leadership has expressed great interest in upgrading the knowledge, skills and abilities of the existing Logistics workforce.

The makeup of the NAWCAD Logistics workforce consists of many who lack a 4yr degree. The proposed B.S. in Logistics Management is intended to matriculate up to 200 of these students. Working closely with Logistics leadership, there are more than 300 logisticians who currently hold a B.S. degree. These and some who will complete their B.S. in Logistics Management represent a strong pool of students for the M.S. in Logistics Management.

Different than in the commercial field, the Navy Logistics Management Specialist focuses on planning, development, implementation and management of effective and affordable weapons, material, or information system support strategies during the acquisition and operational phases of the system's life cycle. The role as a logistician is an integral part of NAVAIR's capability to deliver and support airborne weapon systems that are technologically superior and readily available to Navy and Marine forces operating in harm's way across the globe.

The performance of this work requires the application of broad knowledge of a wide variety of logistics support activities. These include, but are not limited to the determination of detailed requirements, within available or allocated resources, for funds, manpower, facilities, equipment, supplies, and services; the design and development, procurement, production, storage, distribution, maintenance, transportation, utilization, and disposal of material; the procurement or design and construction, operation, maintenance, and disposal of facilities; the acquisition and training of personnel; and the acquisition or furnishing of such services as communications and those required to meet personnel needs.

(2) Societal Need – N/A

(b) If similar programs exist in the State, what are the similarities or differences in your program in terms of the degrees awarded, the areas of specialization, and the specific academic content of the programs?

There is no similar Logistics graduate degree program available in Southern Maryland or throughout the state of Maryland.

There are two on-campus graduate programs offered in the field of Supply Chain Management. University of Maryland College Park and Towson University both offer the M.S. in Supply Chain Management. As previously discussed, the field of the proposed FIT program in Logistics Management shares some similarities in academic content. However, there are significant differences in the emphasis and specialization of the curriculum. Logistics Management addresses a career specialty found more in the defense sector whereas Supply Chain Management is geared more toward commercial sectors. Another key differences is in

geographic markets served. College Park is 70 miles north of Lexington Park while Baltimore is at least 90 miles north of Lexington Park, MD.

(c) Is a Maryland employer sponsoring/supporting the application for the program to be offered at this location? **No**

A-2: Educational Need

M.S. Management with concentration in Logistics Management

(a) What critical and compelling Regional or Statewide (Maryland) need and demand does your proposed program meet?

FIT is proposing the addition of three logistics management programs at the Southern Maryland Higher Education Center (SMHEC) including the M.S. in Management with a concentration in Logistics Management. This degree is being offered as one of two complementary follow-on graduate programs to the proposed B.S. in Logistics Management. Much of the rationale for the M.S. in Management with a concentration in Logistics Management program is the same as in the proposed undergraduate program, though the potential pool of students may be smaller.

There are two primary drivers for this new program offering. The first is the continued occupational growth anticipated in the commercial logistics field in Southern Maryland as major projects such as Dominion Cove Point Liquefied Natural Gas (LNG) Export Project are constructed in the next 5-10 years. The clustering effect that will occur as this multi-billion dollar project unfolds will require additional levels of logistics, transportation and supply chain jobs.

The second driver is an acute need to advance the anticipated upgraded academic skill levels of a large Navy Logistics employee population at NAS Patuxent River, affecting many workers. These two distinct needs are explained below.

(1) Occupational Need

In the commercial field, the field of Logistics encompasses several important functions dealing with transportation and supply chain industries, with a focus on cargo handling; supply chain logistics management; airport, seaport, rail, and trucking operations; related technologies and security requirements. Maryland is expecting strong employment growth in Transportation and Warehousing through 2022 as shown in the table below. While most of these jobs may not require college degrees, the increasing amount of specialized knowledge required for efficient lean operations methods places greater demands on effective management of these functions.

Industry Sector	2012	2022	Change	% Chg
All Transportation and Warehousing	86,429	92,857	6,428	7.4%
Transit and Ground Passenger Transportation	19,833	23,300	3,467	17.5%
Warehousing and Storage	11,548	14,812	3,264	28.3%

Source: Maryland Department of Labor, Licensing and Regulation, Maryland Occupational Projections 2012 – 2022, Maryland Industry Projections
http://www.dllr.state.md.us/lmi/iandoproj/industry.shtml (updated December 3, 2014)

Defense Sector - DoD and DoN Logistics Management

Referencing A-2: Educational Need for the B.S. Logistics Management, while there is continued growth expected in the commercial logistics workforce, there is a concentration of specialized professional logisticians at NAS Patuxent River that carries out mission-essential logistics support functions. NAWCAD 6.0 is the Logistics and Industrial Operations Competency that employs upwards of 900 professional logisticians at NAS Patuxent. NAWCAD leadership has expressed great interest in upgrading the knowledge, skills and abilities of the existing Logistics workforce.

The makeup of the NAWCAD Logistics workforce consists of many who lack a 4yr degree. The proposed B.S. in Logistics Management is intended to matriculate up to 200 of these students. Working closely with Logistics leadership, there are more than 300 logisticians who currently hold a B.S. degree. These and some who will complete their B.S. in Logistics Management represent a strong pool of students for the M.S. in Logistics Management.

Different than in the commercial field, the Navy Logistics Management Specialist focuses on planning, development, implementation and management of effective and affordable weapons, material, or information system support strategies during the acquisition and operational phases of the system's life cycle. The role as a logistician is an integral part of NAVAIR's capability to deliver and support airborne weapon systems that are technologically superior and readily available to Navy and Marine forces operating in harm's way across the globe.

The performance of this work requires the application of broad knowledge of a wide variety of logistics support activities. These include, but are not limited to the determination of detailed requirements, within available or allocated resources, for funds, manpower, facilities, equipment, supplies, and services; the design and development, procurement, production, storage, distribution, maintenance, transportation, utilization, and disposal of material; the procurement or design and construction, operation, maintenance, and disposal of facilities; the acquisition and training of personnel; and the acquisition or furnishing of such services as communications and those required to meet personnel needs.

(2) Societal Need – N/A

(b) If similar programs exist in the State, what are the similarities or differences in your program in terms of the degrees awarded, the areas of specialization, and the specific academic content of the programs?

There is no similar Logistics concentration graduate degree program available in Southern Maryland or throughout the state of Maryland.

University of Maryland University College offers a similar M.S. in Management with a specialization in Acquisition and Supply Chain Management. However, the major difference between the UMUC and proposed FIT program is that the UMUC program is offered completely online. The FIT program is a face-to-face program offered on site at FIT SMHEC. Some coursework may be taken online but FIT SMHEC students traditionally complete all or most coursework in the classroom. As previously discussed, the field of the proposed FIT program in Logistics Management shares some similarities in academic content. However, there are

significant differences in the emphasis and specialization of the curriculum. Logistics Management addresses a career specialty found more in the defense sector whereas Supply Chain Management is geared more toward commercial sectors.

(c) Is a Maryland employer sponsoring/supporting the application for the program to be offered at this location? **No**

A-2: Educational Need

M.S. Technology Management

(a) What critical and compelling Regional or Statewide (Maryland) need and demand does your proposed program meet?

FIT is proposing the addition of the master of science in technology management program at the Southern Maryland Higher Education Center (SMHEC). Maryland is among the nation's leaders in STEM (Science, Technology, Engineering and Mathematics) initiatives. NAS Patuxent River, and in particular the largest tenant command, Naval Air Warfare Center Aircraft Division (NAWCAD) is among the few DoD commands with an RDT&E (research, development, test and evaluation) mission. Furthermore, the pervasiveness of technology in all fields requires managers to remain current in and familiar with technology to successfully lead and manage technology programs.

Maryland is expecting continued growth in technology industries as a major source of future employment. BioMaryland characterizes the MD 270 corridor while CyberMaryland defines the vast swath around Ft. Meade. The emerging field of autonomy and unmanned systems is a key driver for Southern Maryland as Naval Aviation advances quickly into this area with NAVAIR/NAWCAD serving as the anchor. The region is rapidly evolving into AeroMaryland. Science and technology development is at the heart of this boom.

(1) Occupational Need

The master of science in technology management degree is suitable for individuals from fields other than technology and computing, including business, mathematics, science and engineering, education, health care and government administration. Career paths for individuals who earn a master's in technology management vary widely based on this developing field bridging the gap between traditional business and information technology management roles. According to the Bureau of Labor Statistics 2014-15 Occupational Outlook Handbook, management roles are anticipated to remain stable at 11% job growth through 2022 while information systems management is predicted to grow 15% faster than average through that same time period.

The primary source of students for this program is the employee population at NAS Patuxent River including civilians, contractors, and military personnel. Additionally, this program has appeal to working professionals in the broader SoMD community in the computing, energy and environmental sciences fields, education, health care, government administration, and related industries.

Maryland is expecting strong employment in professional, scientific, and technical services industries and in technology management occupations through 2022 as shown in the table below. While most of these jobs may not require the M.S. in Technology Management degree, the need for specialized knowledge required for management of complex technical systems is increasing much faster than all needs in the management labor force.

Industry/Occupational Sector	2012	2022	Change	% Chg
Professional, Scientific, and Technical Services	242,093	284,648	42,555	17.58%
Computer and Information Systems Managers	10,671	12,245	1,574	14.8%
Management Occupations	185,303	196,575	11,272	6.1%

Source: Maryland Department of Labor, Licensing and Regulation, Maryland Occupational Projections 2012 – 2022, Maryland Industry Projections
http://www.dllr.state.md.us/lmi/iandoproj/industry.shtml (updated March 16, 2015)

List of possible career paths for students with a M.S. Technology Management degree:

CTO (Chief Technology Officer)
CIO (Chief Information Officer)
Management Information Systems Director
Information Systems Manager
Program Manager
Project Manager
IT Project Manager
Senior Network Systems Administrator
Senior Computer Systems Analyst
Senior Software Developer
IT Consultant
Technology Consultant

Local Job Listings searches for Technology Managers in December 2015

- USAJobs.gov has 54 Patuxent River, MD job postings and 317 total listings in the U.S. involving Technology Management
- Indeed.com lists 22 job postings in Patuxent River, MD, and 48,720 total job listings for Technology Managers
- Monster.com lists 53 job postings in the Patuxent River, MD, area and over 1,000 total job listings for Technology Managers
- CareerOneStop.com lists 44 job postings in Patuxent River, MD
- CareerBuilder.com lists 21 job postings in Patuxent River, MD
- ZipRecruiter.com lists 403 job postings in Lexington Park, MD, and over half a million total Technology Manager listings

(2) Societal Need – N/A

(b) If similar programs exist in the State, what are the similarities or differences in your program in terms of the degrees awarded, the areas of specialization, and the specific academic content of the programs?

There are no similar face-to-face degree program offerings available in Southern Maryland or throughout the state of Maryland.

There are online providers in Maryland whose programs are accessible by the Southern Maryland community as follows:

Stevenson University, Master of Science in Business & Technology Management
University of Maryland University College, Post-Baccalaureate Certificates in Technology Management and Technology Management Systems

There are numerous out-of-state online providers whose programs are accessible by the Southern Maryland community. A sample follows:

Capella University, MS Information Systems and Technology Management
Columbia University, Executive Master of Science in Technology Management
Georgetown University, Master of Professional Studies in Technology Management
Purdue University, Master of Science in Technology with concentration in Leadership & Management
Southeast Missouri State University, Master of Science in Technology Management
University of Denver, Master of Science in Information and Communication Technology with a concentration in Technology Management

All these programs provide similar curriculum, and students choose among them based on quality, cost, and other factors. What distinguishes the Florida Tech technology management program from all these is the local face-to-face delivery of coursework. Our students cite this benefit, the ability to learn in a traditional classroom setting with a qualified instructor there, as one of the chief reasons for selecting Florida Tech. We have a number of qualified faculty teaching the program who work in the field of Technology Management.

(c) Is a Maryland employer sponsoring/supporting the application for the program to be offered at this location? **No**

Course descriptions from the College's catalog

B.S. in Logistics Management

Florida Institute of Technology

2016-2017 Catalog

http://catalog.fit.edu/preview_program.php?catoid=4&poid=854&returnto=90

Required Courses and Course Descriptions

AVM 3303 TRANSPORTATION LOGISTICS (3 credits)

Studies transportation and logistics management as a discipline concerned with efficient materials flow through the global industrial and economic system. Emphasizes managerial aspects of air transportation and logistics systems and serves as specialized education for those who plan careers in transportation or logistics.
Minimum student level – junior

BUS 3501 MANAGEMENT PRINCIPLES (3 credits).

Helps students acquire management knowledge and develop management skills. Enables the student to understand management as it relates to both the employer and employee, and acquaints the student with the various schools of management and the philosophy of management.
Minimum student level - sophomore

BUS 3550 SUPPLY CHAIN MANAGEMENT (3 credits)

Focuses on supply chain management (SCM) from a global perspective. Encompasses operations management, purchasing and logistics in managing the supply chain. Covers how supply chain processes and activities are optimized from suppliers to consumers.
Minimum student level – junior

BUS 3551 MATERIEL ACQUISITION MANAGEMENT (3 credits)

Examines the life-cycle process of the acquisition of materiel and materiel systems. Includes systems management and its application from acquisition to termination. Studies need requirements, cost and schedule considerations and procurement procedures. Also includes the evaluation and development of purchasing systems. Pre-requisite(s): BUS 3550

BUS 3553 MANAGEMENT OF TRANSPORTATION SYSTEMS (3 credits)

Reviews the history of transportation. Includes the advantages and disadvantages of various carrier modes. Emphasizes management problems common to all modes of domestic and international transportation. Also discusses transportation engineering, use of facilities, and materiel, economic, personnel, labor and union aspects. Prerequisite(s): AVM 3303.

BUS 3601 MARKETING PRINCIPLES (3 credits)

Examines the principles of marketing. Emphasizes the marketing concept, functions, consumer behavior, market segmentation, marketing strategy, marketing mixes, market research, marketing legislation and marketing control, as well as providing a foundation for higher-level courses in marketing.

BUS 3704 QUANTITATIVE METHODS (3 credits)

Emphasizes management science and operations research techniques in solving managerial problems. Includes linear programming, sensitivity analysis, transportation and assignment problems, inventory models, CPM and PERT analysis, decision analysis and queuing analysis. Prerequisites: BUS 2703, MTH 1001 or MTH 1702.

BUS 4501 PRODUCTION/OPERATIONS MANAGEMENT (3 credits)

Introduces current theory and practice in production and operations management. Includes forecasting, quality, product/service design, work methods, facility layout and location, scheduling, inventory and project management. Prerequisite(s): BUS 3704.

BUS 4502 ORGANIZATIONAL BEHAVIOR AND THEORY (3 credits)

Overviews classical and contemporary approaches to organizational behavior and theory. Focus progresses from the micro (individual behavior) to macro (organizational processes, effectiveness and change). Special attention is given to group behavior. Prerequisites: BUS 3501.

BUS 4550 ADVANCED TECHNIQUES IN SUPPLY CHAIN MANAGEMENT (3 credits)

Covers advanced theory and practice of supply chain management (SCM). Includes operational logistics support and the concepts and tools of electronic communications and information technology systems. Studies the

strategy, organizational structure and new technologies in SCM. Also covers planning, program design and quality assurance. Prerequisite(s): BUS 3550.
BUS 4552 INVENTORY CONTROL MANAGEMENT (3 credits) *Includes management techniques and methods related to the life-cycle management of material. Addresses material management systems and concepts of standardization, modernization, material reserve, cataloging, pre-ordering, storage and distribution. Applies management principles to inventory control. Prerequisite(s): BUS 3550.*
BUS 4553 INTEGRATED LOGISTICS MANAGEMENT (3 credits) *Covers the structure of the integrated logistics management (ILM) philosophy and how to apply information technology processes and systems to ILM. Provides the framework for integrated logistics support (ILS). Discusses the management tools available to logistics managers and places ILS in perspective within the acquisition process. Prerequisite(s): BUS 3550.*
BUS 4555 PROCUREMENT & CONTRACT MANAGEMENT (3 credits) *Covers the principles and management processes by which organizations contract for goods and services. Emphasizes the procurement activities of the U.S. federal government. Includes legal requirements for the formation, performance and modification of a contract relationship, and how to prevent disputes, controversies and cost overruns. Prerequisites: BUS 2601* *Minimum student level - senior*
BUS 4701 INTERNATIONAL BUSINESS (3 credits) *Introduces the environmental factors confronting managers in international operations: cultural, economic, legal, political and institutional determinants. Examines problms associated with managing organizational, financial, marketing and production policies in a global marketplace.* *Minimum student level - senior*
BUS 4702 BUSINESS STRATEGY AND POLICY (3 credits) *Reviews basic concepts and techniques used in formulating competitive strategy at the corporate, business and functional levels. Introduces business models to provide a learning experience in quantitative aspects of strategy formulation in a competitive environment.* *Minimum student level – senior* *Requirement(s): Must be taken the final semester before graduation.*
BUS 4788 BUSINESS PLAN RESEARCH (3 credits) *Introduces research methods used to create viable business ventures. Begins with innovation and creativity, and proceeds to critical thinking through learned tools including marketing, operational, financial, organizational and strategic analyses. Culminates in a fully developed business plan.* *Minimum student level - senior*

Free Electives (*4 courses*)

TOTAL CREDITS REQUIRED.....60

M.S. in Logistics Management

Florida Institute of Technology

2016-2017 Catalog

http://catalog.fit.edu/preview_program.php?catoid=4&poid=859&returnto=90

Required Courses and Course Descriptions

MGT 5006 INTRODUCTORY MANAGERIAL STATISTICS (3 credits) *Studies methods of collecting, analyzing and interpreting data for managerial decision making. Includes data presentation, measures of central tendency, dispersion and skewness; discrete and continuous probability distributions; sampling methods and sampling distributions; and confidence interval estimation of parameters and tests of hypotheses.*
MGT 5061 SYSTEMS AND LOGISTICS SUPPORT MANAGEMENT (3 credits). *Addresses the management of evolving systems. Emphasizes planning and support requirements of the system during its life cycle. Includes maintenance planning, physical distribution, manpower requirements, facility and equipment needs, documentation, systems integration and other support requirements.*
MGT 5062 LOGISTICS POLICY (3 credits) *Analyzes logistics as a science and provides a comparative analysis of different policy considerations. Reviews the role of logistics in organizational policy and problems, and future trends in logistics.*
MGT 5063 INVENTORY CONTROL AND MANAGEMENT (3 credits) *Includes management techniques and methods related to the life cycle management of material. Addresses material management systems and concepts of standardization, modernization, material reserve, cataloguing, pro-ordering, storage and distribution.*
MGT 5064 COST AND ECONOMIC ANALYSIS (3 credits) *Covers cost effectiveness, trade-off analysis, system effectiveness model structure, criteria for evaluation of alternative systems, principles of cost accounting and cost estimating for system life cycle. Includes basic math for cost-effective analysis, computer tools for economic modeling and risk assessment. Prerequisites: MGT 5006.*
MGT 5065 SUPPLY CHAIN MANAGEMENT (3 credits) *Combines lectures, class discussions on assigned topics and case analyses. Includes the role of SCM in the economy and organizations; customer service; SCM information systems; inventory management; managing materials flow and handling; transportation; warehousing; computerization and packaging issues; purchasing; global logistics; organizing for effective SCM; methods to control SCM performance; and implementing SCM strategy.*
MGT 5069 ADVANCED TECHNIQUES IN SUPPLY CHAIN MANAGEMENT (3 credits) *Covers advanced theory and practice of supply chain management including operational and logistics support. Provides an understanding of strategy, organizational structure and new technologies in SCM. Includes the Internet and its effect on SCM, and the concepts and tools used in SCM. Examines requirements, specifications, planning, program design, and maintenance and quality assurance of SCM systems. Prerequisites: MGT 5065.*
MGT 5100 DISTRIBUTION MANAGEMENT (3 credits) *Distribution systems and management from a cost vs. return view. U.S. and world transportation systems' impact on distribution centers, automated order processing, warehousing techniques and layout, organization for physical distribution management, total system approach, government regulation, distribution components and management of distribution resources.*
MGT 5903 LOGISTICS MANAGEMENT CAPSTONE PROJECT (3 credits). *Involves a team-based consulting activity for an outside client organization. Requires a project, written report and presentation assessed for synthesis of learned competencies in oral and written communication, critical thinking and logistics management. Acts as capstone for the master's program in logistics management.*

Electives *(2 courses)*

MGT 5010 SEMINAR IN RESEARCH METHODOLOGY (3 credits) *Reviews research methods in managerial disciplines. Incudes nature and sources of secondary data, primary data collection techniques, design of research projects, sample selection, model building, etc. Requires a research proposal and presentation of a fully documented research report on the results of the study.*
MGT 5017 PROGRAM MANAGEMENT (3 credits) *Addresses responsibility and authority of a program manager and the integration of program functions in complex organizational structures. Discusses interpersonal relationships within matrix organizations, as well as program conflict resolution and organizational priorities.*
MGT 5033 HUMAN RESOURCES MANAGEMENT (3 credits) *Explores issues surrounding the employment of human resources in various organizational settings using lectures/guided discussions and case studies. May include recruitment/selection, job analyses/evaluation, equal employment opportunity, training/development, compensation/benefits, appraisal, labor relations, health and safety, and separation/retirement.*
MGT 5060 MANAGEMENT OF ASSETS (3 credits) *Includes determination of requirements for management of major and secondary items. Reviews the needs and techniques for accurate asset reporting and analysis of demand data for customers' requirements. Emphasizes problems related to unstable items and management methods required to integrate asset acquisition and management into the life cycle program.*
MGT 5079 TRAFFIC MANAGEMENT (3 credits) *Examines the various means of directing, controlling and supervising functions involved in furnishing transportation services and facilities. Examines in detail service support to the customer and the principles and problems involved.*
MGT 5084 MATERIEL ACQUISITION MANAGEMENT (3 credits) *Examines the life cycle process of acquisition of materiel and materiel systems. Examines systems management and its application from acquisition to termination. Studies needs requirements, costs and schedule considerations and procurement procedures. May serve as the capstone for certain majors.*
MGT 5087 MANAGEMENT OF TRANSPORTATION SYSTEMS (3 credits) *Studies various contemporary carrier modes, emphasizing management problems common to all modes of domestic and international transportation. Investigates and discusses transportation engineering, use of transportation facilities and materiel, and economic, personnel, labor and union aspects.*
MGT 5500 INTEGRATED LOGISTICS MANAGEMENT (3 credits) *Provides the framework for integrated logistics support (ILS). Discusses the management tools available to logistics managers and places ILS in perspective within the acquisition process. Includes understanding of all elements of ILS, the relationship of ILS elements to ILS planning and current systems acquisition practices.*

TOTAL CREDITS REQUIRED.....33

M.S. in Technology Management

Florida Institute of Technology

2016-2017 Catalog

http://catalog.fit.edu/preview_program.php?catoid=4&poid=878&returnto=90

Required Courses and Course Descriptions

MGT 5006 INTRODUCTORY MANAGERIAL STATISTICS (3 credits)
Studies methods of collecting, analyzing and interpreting data for managerial decision making. Includes data presentation, measures of central tendency, dispersion and skewness; discrete and continuous probability distributions; sampling methods and sampling distributions; and confidence interval estimation of parameters and tests of hypotheses.

MGT 5013 ORGANIZATIONAL BEHAVIOR (3 credits).
Covers the contributions to management theory made by the behavioral sciences. Gives a better understanding of the human being and why he acts as he does. Studies individual and group behavior. Extensively uses current periodicals and case materials.

MGT 5034 LAW, TECHNOLOGY AND SOCIETY (3 credits)
Critically examines the impact of technology on the legal system and social organization, origin and methodology of the common law. Provides a framework for analyzing social change caused by advancing technology. Analyzes legal concepts from the standpoint of societal reaction to technology. Uses the case study method.

MGT 5115 GLOBAL INFORMATION TECHNOLOGY MANAGEMENT (3 credits)
Covers theory, development and impacts of national and international policy on information technology (IT). Explores how frequent shifts in public policy require IT businesses to adjust rapidly to adhere to regulations. Requires development of sophisticated strategies including new technologies, global transfer and analysis to be able to adapt to the changing environment.

MGT 5137 THE MANAGEMENT OF ENGINEERING AND TECHNOLOGY (3 credits)
Explores relationships between technology, innovation, management and business operations. Studies technology strategy in terms of discovery-product-market path. Relates the management functions of planning, organizing and controlling to life cycles. Uses case studies.

MGT 5145 TECHNOLOGY AND BUSINESS STRATEGY (3 credits)
Focuses on the process of developing a technology strategy and integrating it with business strategy. Involves technology situation analysis, technology portfolio development, technology and corporate strategy integration and establishing technology investment priorities. Extensively uses case studies.

MGT 5146 MANAGEMENT OF INNOVATION (3 credits)
Considers innovation in a historical context, organizing organizational culture and innovation, managing cross-functional teams, venturing and organization learning, intra- and entrepreneurship, managing R&D resources, executive leadership and the management of innovation and change, and designing innovative organizations.

MGT 5905 TECHNOLOGY MANAGEMENT CAPSTONE PROJECT (3 credits).
Involves a team-based consulting activity with an outside client organization. Requires a project, written report and presentation assessed for synthesis of learned competencies in oral and written communication, and the use of technology in organizations.
Requirement(s): Acts as capstone for the master's program in technology management.

Electives *(2 courses)*

MGT 5017 PROGRAM MANAGEMENT (3 credits) *Addresses responsibility and authority of a program manager and the integration of program functions in complex organizational structures. Discusses interpersonal relationships within matrix organizations, as well as program conflict resolution and organizational priorities.*
MGT 5070 SPECIAL TOPICS IN BUSINESS (3 credits) *Independent study with a faculty member in some area of business in greater depth than is normally possible in a regular class. Requires a comprehensive term paper.*
MGT 5101 LEADERSHIP THEORY AND EFFECTIVE MANAGEMENT (3 credits) *Introduces and examines historical development of leadership theory and supporting research. Considers past and contemporary theory in self-analysis by students to define their own leadership styles.*
MGT 5131 PRODUCTIVITY MEASUREMENT AND IMPROVEMENT (3 credits) *Covers the productivity and quality improvement process, organizing for successful implementation of the Deming philosophy, organizational structure and implementing teams. Includes productivity, profit and quality, organizational anxieties, measurement problems, partial/total firm productivity, JIT and TQM.*

TOTAL CREDITS REQUIRED.....30

M.S. in Management with Logistics Management concentration

Florida Institute of Technology

2016-2017 Catalog

http://catalog.fit.edu/preview_program.php?catoid=4&poid=865&returnto=90

Required Courses and Course Descriptions

MGT 5000 FINANCIAL ACCOUNTING (3 credits)
Studies accounting concepts, the accounting model, measurement processes, financial statements, Financial analysis, the accounting cycle, monetary and fixed assets, inventory, current and long-term liabilities, and equity structures of partnerships, proprietorships and corporations.

MGT 5002 CORPORATE FINANCE (3 credits)
Covers concepts and tools of corporate financial management including corporate financial planning, forecasting, budgeting, quantitative techniques and practices. Considers the importance of ethics and the international aspects in financial decision-making.
Prerequisite: MGT 5000.

MGT 5011 MANAGEMENT THEORY AND THOUGHT (3 credits)
Overviews classical and contemporary management philosophies and theories. Focuses on managing enterprises in a rapidly changing global economy. Includes developing strategic vision, planning, organizing, directing and controlling, social responsibility and international management.

MGT 5013 ORGANIZATIONAL BEHAVIOR (3 credits)
Covers the contributions to management theory made by the behavioral sciences. Gives a better understanding of the human being and why he acts as he does. Studies individual and group behavior. Extensively uses current periodicals and case materials.

MGT 5020 APPLIED MANAGEMENT PROJECT (3 credits)
Covers concepts, tools and techniques for evaluation of research proposals and studies. Involves designing, conducting, evaluating and presenting oral and written forms of research. Assignments build on quantitative and qualitative research methods. Serves as the capstone for this program.

MGT 5033 HUMAN RESOURCES MANAGEMENT (3 credits)
Explores issues surrounding the employment of human resources in various organizational settings using lectures/guided discussions and case studies. May include recruitment/selection, job analyses/evaluation, equal employment opportunity, training/development, compensation/benefits, appraisal, labor relations, health and safety, and separation/retirement.

MGT 5101 LEADERSHIP THEORY AND EFFECTIVE MANAGEMENT (3 credits)
Introduces and examines historical development of leadership theory and supporting research. Considers past and contemporary theory in self-analysis by students to define their own leadership styles.
Prerequisites: MGT 5013.

MGT 5106 ORGANIZATIONAL COMMUNICATION (3 credits)
Includes basic communication theory and the effects of communication on human behavior and organizational effectiveness. Provides a basic understanding of organizational communication theory. Uses case studies and experiential exercises to improve communication skills.

Electives *(3 courses)*

MGT 5024 PRODUCTION AND OPERATIONS MANAGEMENT (3 credits)
Introduces the translation of product and service requirements into facilities, procedures and operating organizations. Includes product design, production alternatives, facilities location and layout, resource requirements planning and quality control.

MGT 5060 MANAGEMENT OF ASSETS (3 credits)
Includes determination of requirements for management of major and secondary items. Reviews the needs and techniques for accurate asset reporting and analysis of demand data for customers' requirements.

Emphasizes problems related to unstable items and management methods required to integrate asset acquisition and management into the life cycle program.
MGT 5061 SYSTEMS AND LOGISTICS SUPPORT MANAGEMENT (3 credits) *Addresses the management of evolving systems. Emphasizes planning and support requirements of the system during its life cycle. Includes maintenance planning, physical distribution, manpower requirements, facilities and equipment needs, documentation, systems integration and other support requirements.*
MGT 5064 COST AND ECONOMIC ANALYSIS (3 credits) *Covers cost effectiveness, trade-of analysis, system effectiveness model structure, criteria for evaluation of alternative systems, principles of cost accounting and cost estimating for system life cycle. Includes basic math for cost-effective analysis, computer tools for economic modeling and risk assessment* *Prerequisites:: MGT 5006*
MGT 5065 SUPPLY CHAIN MANAGEMENT (3 credits) *Combines lectures, class discussions on assigned topics and case analyses. Includes the role of SCM in the economy and organizations; customer service; SCM information systems; inventory management; managing materials flow and handling; transportation; warehousing; computerization and packaging issues; purchasing; global logistics; organization for effective SCM; methods to control SCM performance; and implementing SCM strategy.*
MGT 5066 SYSTEMS ANALYSIS AND MODELING (3 credits) *Applies case analysis and modeling tools to a business environment. Discusses systems analysis and constructs computer models. Includes system classification, problem formulation, decision/risk analysis, modeling techniques, discrete event simulation and evaluation of information. Requires a design project.* *Prerequisites: MGT 5006*
MGT 5069 ADVANCED TECHNIQUES IN SUPPLY CHAIN MANAGEMENT (3 credits) *Covers advanced theory and practice of supply chain management including operational and logistics support. Provides an understanding of strategy, organizational structure and new technologies in SCM. Includes the Internet and its effect of SCM, and the concepts and tools used in SCM. Examines requirements,, specifications, planning, and program design, and maintenance and quality assurance of SCM systems.* *Prerequisites: MGT 5065*
MGT 5070 SPECIAL TOPICS IN BUSINESS (3 credits) *Independent study with a faculty member in some area of business in greater depth than is normally possible in a regular class. Requires a comprehensive term paper.*
MGT 5084 MATERIEL ACQUISITION MANAGEMENT (3 credits) *Examines the life cycle process of acquisition of materiel and materiel systems. Examines systems management and its application from acquisition to termination. Studies need requirements, cost and schedule considerations and procurement procedures. May serve as the capstone for certain majors.*
MGT 5100 DISTRIBUTION MANAGEMENT (3 credits) *Distributes systems and management from a cost vs. return view. U.S. and world transportation systems' impact on distribution centers, automated order processing, warehousing techniques and layout, organization for physical distribution management, total systems approach, government regulation, distribution components and management of distribution resources.*
MGT 5211 PROCUREMENT AND CONTRACT MANAGEMENT (3 credits) *Overviews in depth the federal acquisition process and introduces the basic concepts, policies and procedures incident to government contracting through the FAR and supplementing directives.*

TOTAL CREDITS REQUIRED.....33

Recent Approval Letter

MHEC
Creating a state of achievement

August 28, 2015

Dr. Anthony James Catanese
President
Florida Institute of Technology
150 West University Blvd.
Melbourne, FL 32901

Dear President Catanese:

The Maryland Higher Education Commission has received an application from Florida Institute of Technology to renew eight existing programs and two areas of concentration within an approved program at Aberdeen Proving Ground, located at 320 Johnson Street, MD 21005, to renew one program and two areas of concentration within an approved program and offer one new program at the Southern Maryland Higher Education Center, located at 44219 Airport Road, California, MD 20619, and to discontinue all operations at Fort Detrick. I am pleased to inform you that Florida Institute of Technology is authorized to offer the programs listed below at these locations until August 31, 2020.

Approved programs:

Aberdeen Proving Ground (APG)

I. Master of Business Administration (M.B.A.)
II. M.S. in Acquisition and Contract Management
III. M.S. in Engineering Management
IV. M.S. in Management
V. M.S. in Human Resource Management
VI. M.S. in Operations Research
VII. M.S. in Project Management
  a. A.O.C. in Information Systems
  b. A.O.C. in Operations Research
VIII. M.S. in Systems Management

Southern Maryland Higher Education Center (SMHEC)

I. Master of Science (M.S.) in Project Management
  a. A.O.C. in Information Systems
  b. A.O.C. in Operations Research
II. Doctor of Business Administration (DBA)

Discontinued program:

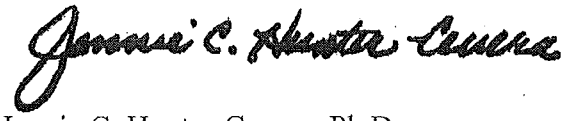
Fort Detrick

I. P.B.C. in Project Management

An electronic renewal form and the regulations for out-of-state institutions are available on the Commission's website under "Academic Approval Process" at www.mhec.state.md.us. In order to operate at the approved location after the stated expiration date, the renewal application should be completed and submitted to this office no later than five months before the institution proposes to commence operation for the academic year 2020-2021. If applicable, the use of VA benefits for these programs should be coordinated through Ms. Trish Gordon-McCown, Associate Director -Veterans Affairs. She can be reached at 410-767-3098.

Please keep us informed of any changes contemplated in your offerings in Maryland. We look forward to continuing the cooperative relationship developed between your institution and the Maryland Higher Education Commission.

Sincerely,



Jennie C. Hunter-Cevera, Ph.D.
Acting Secretary of Higher Education

JCHC:JVF:mrw

C: Dr. Robert Schaller, Site Director, Florida Institute of Technology