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| <br><b>FLORIDA ATLANTIC UNIVERSITY</b>                                                                                                                                                                                                                                                                                                                                                                                                        | <h2 style="text-align: center;">NEW/CHANGE PROGRAM REQUEST</h2> <h3 style="text-align: center;">Graduate Programs</h3> |                                                                                                           | UGPC Approval _____<br>UFS Approval _____<br>Banner _____<br>Catalog _____                                    |
| <b>Department</b> Information Technology and Operations Management<br><br><b>College</b> Business                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |                                                                                                           |                                                                                                               |
| <b>Program Name</b><br>Master of Science in Supply Chain Management (MSSCM)                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> <b>New Program*</b><br><input checked="" type="checkbox"/> <b>Change Program*</b>             | <b>Effective Date</b><br><small>(TERM &amp; YEAR)</small><br>Fall 2022                                    |                                                                                                               |
| <p><b>Please explain the requested change(s) and offer rationale below or on an attachment.</b></p> <p>ITOM is proposing to offer a working professional track the Master of Science in Supply Chain Management (MSSCM) program as a self-supporting program administered by the Executive Education Department in the College of Business. The program track will be designed for working professional students and will be offered in formats that caters to working professionals.</p> <p>Please see attached proposal.</p> |                                                                                                                        |                                                                                                           |                                                                                                               |
| <small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small>                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |                                                                                                           |                                                                                                               |
| <b>Faculty Contact/Email/Phone</b><br>Dr. T. Dinev / tdinev@fau.edu / 7-3181                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        | <b>Consult and list departments that may be affected by the change(s) and attach documentation</b><br>N/A |                                                                                                               |
| <b>Approved by</b><br>Department Chair _____<br>College Curriculum Chair _____<br>College Dean _____<br>UGPC Chair _____<br>UGC Chair _____<br>Graduate College Dean _____<br>UFS President _____<br>Provost _____                                                                                                                                                                                                                                                                                                             |                                                                                                                        |                                                                                                           | <b>Date</b><br>09/23/2021<br>09/24/21<br>09/24/21<br>Oct 22, 2021<br>Oct 22, 2021<br>Oct 22, 2021<br><br><br> |

Email this form and attachments to [UGPC@fau.edu](mailto:UGPC@fau.edu) 10 days before the UGPC meeting.

**FLORIDA ATLANTIC UNIVERSITY**

**Proposal for For-Credit Self-Supporting Program**

This form must be completed and submitted to Continuing Education/Office of the Provost. New degrees, or an existing degree with a different curriculum tied to Self-Supporting delivery, must be approved through the normal faculty governance process.

**College or Academic Unit:** College of Business

**Department/School of Academic Unit:** Information Technology and Operations  
Management (ITOM)

**Name of Degree:** Master of Science in Supply Chain Management (MSSCM)

**Specialized track (if applicable):** Professional

**CIP Code:** 52.0203

**Proposed Implementation Date:** Fall 2022

**1. Describe the operation and delivery format of the program. Include information of the uniqueness of the program, the target audience, and enrollment projections. Please provide information on data for enrollment projection.**

The College of Business ITOM is proposing to offer a working professional track the Master of Science in Supply Chain Management (MSSCM) program as a self-supporting program administered by the Executive Education Department in the College of Business. The program track will be designed for working professional students and will be offered in formats that caters to working professionals. The program consists of (1) a strong curriculum, delivering the foundations and principles of Supply Chain Management, Operations Management, Procurement, and Sourcing, integrated with major subfields such as Artificial Intelligence, Big Data Analytics, and Block chain; (2) high quality applied industry projects supervised by experts in the field; and (3) software and simulation systems that students can apply to real world situations and problem solving. There are no concentrations, tracks, or specializations. The program requires a minimum of 30 credits and does not offer a thesis option. Each course duration is 8 weeks and students are expected to take two courses simultaneously. The expected fast track completion time is 12 months.

The MS in SCM program aligns well with the aims of a STEM-emphasis program. FAU will produce graduates which possess the skills and knowledge needed to be competitive in the SCM and Logistics field. This will be accomplished by developing strong Data Analytics and IT skills, critical for the effective supply chains in trade, retail, government, and healthcare across

the nation and the world. Bringing Data analytics and Artificial Intelligence into Supply Chain Management provides an unprecedented opportunity to develop a degree that meets the workforce demands of the future. The overall purpose of the degree is designed to educate and train students in Supply Chain and Logistics Management. The areas of emphasis are on shipping, trade and port management, and technology and business analytics, which are important for the local Economy, especially those connected to the global trade community.

Supply Chain is a key element of the trade, retail, manufacturing, and service industries. Global Trade and Shipping are key aspects of the South Florida economy. The globalization and the advancements in digital technologies, with the most recent emphasis on Blockchain, have resulted in an increased focus on supply chain and its risks. Supply chains are expanding geographically and in scope. There is an increasing demand for SCM professionals locally and nationwide. The graduates of the MSSCM program will fill needs in the local, state and national level. Employment opportunities for the graduates include the following job titles Senior Manager of Supply Chain Planning and Procurement, Senior Supply Chain Manager, Assistant Director of Supply Chain Operations, Manager, Supply Chain Risk Intelligence, International Intermodal Logistics Consultant, and Associate Director, Supply Chain Management. Indeed.com listed 385 jobs available for Supply Chain Management in the West Palm Beach and Fort Lauderdale areas on 19 Sep 2021. According to EAB, “between September 2016 and November 2018, local employer demand for master’s-level supply chain management professionals increased 106 percent (i.e., from 278 to 574 job postings). State employer demand for master’s-level supply chain management professionals increased from 888 to 1,853 job postings in the same time period (i.e., a 109 percent increase)”. The US Bureau of Labor Statistics’s Occupational Outlook Handbook has recently update the job outlook for logisticians. “Employment of logisticians is projected to grow 30 percent from 2020 to 2030, much faster than the average for all occupations.”

| Year | Head Count | Credit Hours | FTE*  |
|------|------------|--------------|-------|
| 2022 | 25         | 750          | 23.43 |
| 2023 | 30         | 900          | 32.8  |
| 2024 | 35         | 1050         | 32.8  |
| 2025 | 35         | 1050         | 32.8  |
| 2026 | 35         | 1050         | 32.8  |

Term Full-Time Equivalent enrollment (FTE) is based on FAU definition which divides credit hours by 32: [https://www.fau.edu/iea/pdf/sasva/Data\\_Dictionary\\_10-29-2019.pdf](https://www.fau.edu/iea/pdf/sasva/Data_Dictionary_10-29-2019.pdf)

**2. State the tuition for the program and explain the process used to determine the proposed self-supporting tuition rate. Include information on similar programs being offered elsewhere**

**and their self-supporting tuition rates. Attach market analysis for proposed program, include assessment of need and projected workforce demand.**

The tuition for the proposed MA in Supply Chain Management is the same for in-state and out-of-state students. This cost is based on competitive offerings across peer institutions and current SUS and FAU policies. The proposed cost per credit hour is \$900 per credit; thus students will complete 30 credit hours for \$27,000. See appendix A for budget.

Current tuition for comparable professional programs, include

| <b>Institution Name</b>                                | <b>Public/Private</b> | <b>Degree</b>                                                                 | <b>Credits / Length</b>         | <b>Tuition Residents/Non-Residents</b>                        |
|--------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------|
| <a href="#">University of Florida (UF)</a>             | Public                | MS in Information Systems and Operations Management with concentration in SCM | 36/40 credits / 18 to 24 months | \$19,100/\$21,253 / \$45,195/\$50,216                         |
| <a href="#">Florida International University (FIU)</a> | Public                | MS Logistics & Supply Chain                                                   | 30 credits / 10 months          | \$28,000/\$30,000                                             |
| <a href="#">University of North Florida (UNF)</a>      | Public                | MS/Transportation & Supply Chain Management                                   | 32 credits / 24 months          | \$15,793/ \$33,417                                            |
| <a href="#">University of South Florida (USF)</a>      | Public                | MS/Supply Chain Management                                                    | 32 credits /                    | \$14,955/ \$29,219                                            |
| <a href="#">Florida Institute of Technology (FIT)</a>  | Private               | MS/Supply Chain Management                                                    | 30 credits /                    | Online<br>\$23,310/\$23,310<br>In-Person<br>\$18,000/\$18,000 |

**3. Provide a listing of the curriculum for the present E&G program and the curriculum for the proposed self-supporting program. Is the curriculum for both programs the same?**

The curriculum is the same as the E&G Curriculum:

**8 Required Courses (24 credits)**

MAN 6501 – Operations Management

MAN 6596 – Supply Chain Management

MAN 6565 – International Shipping, Trade and Port Management

ISM 6509 – Strategic IT Sourcing Management

GEB 6215 – Communication Strategies for Business Professionals

ISM 6404 – Introduction to Business Analytics and Big Data

ISM 6508 – Web-based Business Development

QMB 6616 – Supply Chain Analytics

### **Electives (6 credits)**

ISM 6405 – Advanced Business Analytics

ISM 6645 - Blockchain and Digital Business Transformation (Obtaining approval)

MAN 6581 – Project Management

MAN 6525 – Business Process Improvement Management

ISM 6942 – Graduate Information Technology and Operations Management Internship

### **4. Discuss the impact of the program on existing FAU programs.**

- a. **Explain how the unit will ensure that sufficient courses, paid through auxiliary funds are available to meet student demand and facilitate completion of each program submitted for consideration.**

The professional MS in Supply Chain Management program will be managed in a cohort format, which will ensure that a sufficient number of courses are prescheduled and available to meet student demand and facilitate completion of each program. The schedules of the programs are pre-set and the Department of Executive Education will work with College of Business Department Chairs, to ensure sufficient faculty staffing for all programs. Historically, degree programs offered to working professionals by FAU's Department of Executive Education have always provided a sufficient number of courses to meet student demand.

- b. **Will any similar E&G courses be eliminated or scaled back if this program is implemented.**

The current MS in Supply Chain Management program is non-cohort and it will not be eliminated or scaled back. The two programs will run side-by-side.

### **5. Will this program increase the state's fiscal liability or obligation? Will the self-supporting program cohort supplant or diminishing productivity of an existing E&G funded degree**

**program in the same discipline?**

This self-supporting program will not increase the state's fiscal liability or obligation. The Self-supporting program track cohort will not supplant or diminish the productivity an existing E&G funded degree program in the same discipline.

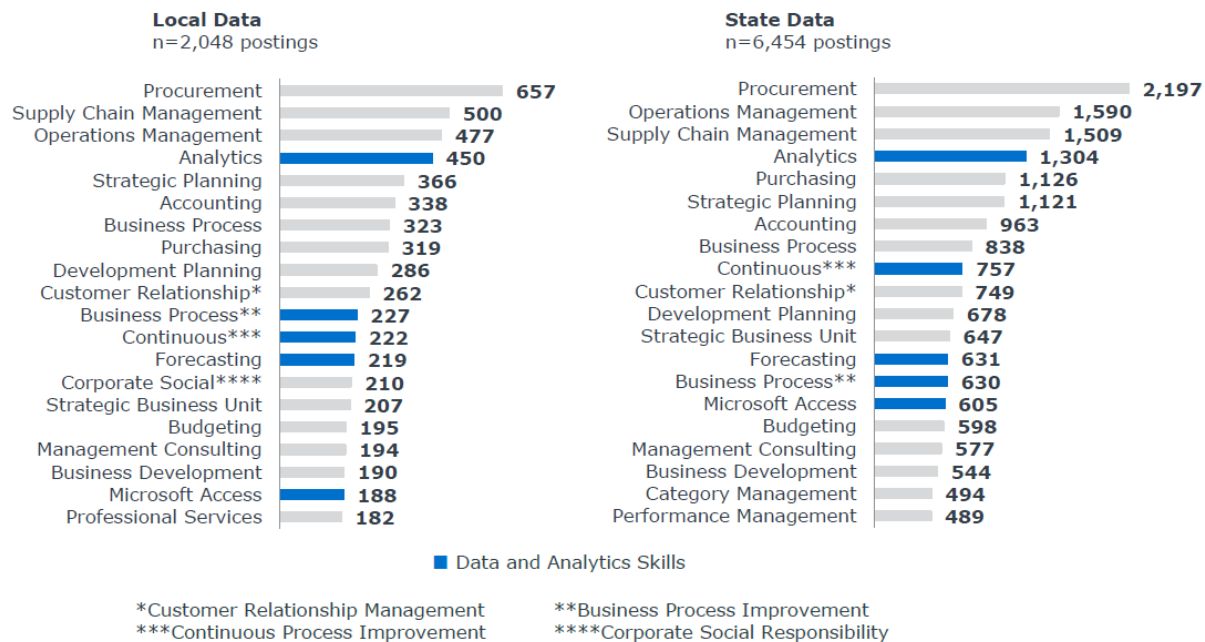
**6. How will offering the proposed Self-Supporting program aligns with the mission of FAU (Race to Excellence 2015-2025). Outline how this program assists the University in achieving its performance metrics. Include information on assessment of need and projected workforce demand.**

The professional MS in Supply Chain Management aligns with the University's mission of pursuing excellence in teaching and actively engaging with the community. Business analytics is recognized as part of a key platform in FAU's strategic plan, and is a significant part of the program, so that this program is aligned with the University's strategic direction. The self-supporting tuition programs also contributes to the University's strategic goal of enriching the educational experience by strengthening and expanding graduate programs at FAU, as well as meeting professional and workforce needs.

The increasing importance of supply chain management is relevant to many, if not all industry sectors, including healthcare, hospitality, marketing, finance, and manufacturing. Industry trends show strong demand for highly skilled individuals able to manage a wide range of supply chain management functions including data and analytics skills, as well as analyze, interpret, and make sound business decisions. The degree program will assist the university in achieving its performance metric by graduating more students in STEM disciplines.

## Frequently Sought Hard Skills for Master's-Level Supply Chain Management Professionals

December 2017-November 2018<sup>9</sup>



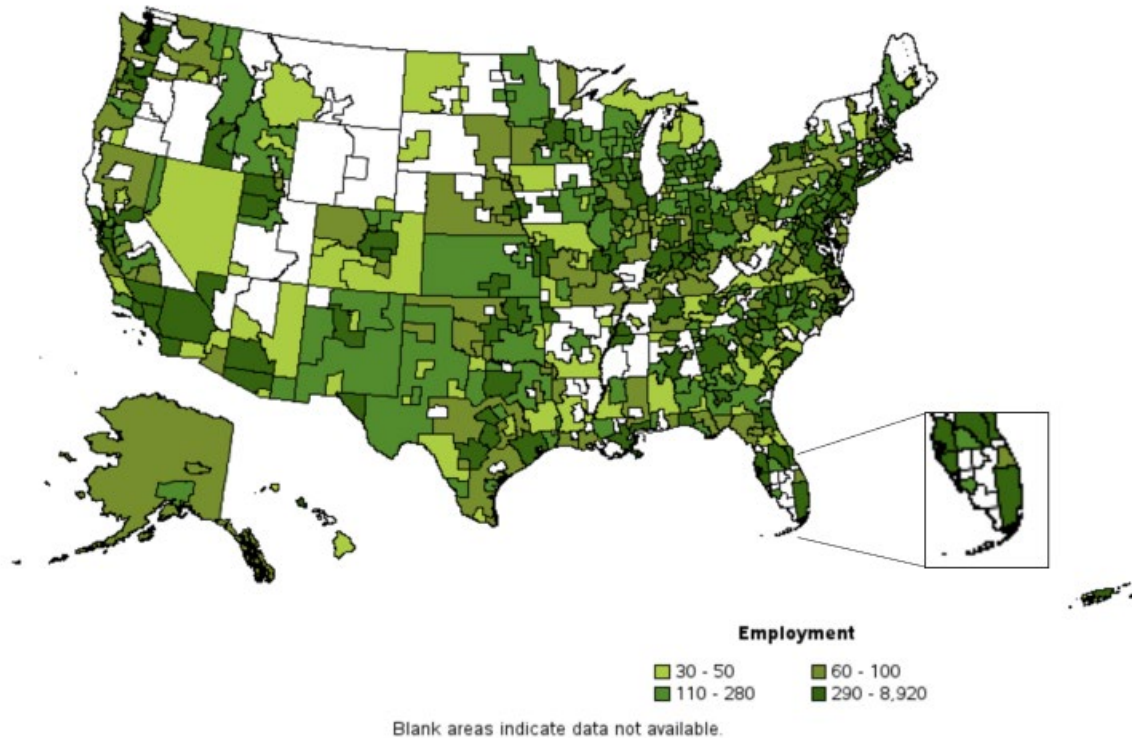
Note 1: EAB Market Demand for a Master's-Level Supply Chain Management Program Report

### Workforce Demand:

Supply Chain is a key element of the trade, retail, manufacturing, and service industries. Global Trade and Shipping are key aspects of the South Florida economy. The globalization and the advancements in digital technologies, with the most recent emphasis on Blockchain, have resulted in an increased focus on supply chain and its risks. Supply chains are expanding geographically and in scope. There is an increasing demand for SCM professionals locally and nationwide. The coronavirus has shined a light on the expanding need for supply chain and logistics professionals. As a result, the US Bureau of Labor Statistics's Occupational Outlook Handbook has recently updated the job outlook for logisticians, a key part of the supply chain. "Employment of logisticians is projected to grow 30 percent from 2020 to 2030, much faster than the average for all occupations." The graduates of the MSSCM program will fill needs in the local, state and national level. Employment opportunities for the graduates include the following job titles Senior Manager of Supply Chain Planning and Procurement, Senior Supply Chain Manager, Assistant Director of Supply Chain Operations, Manager, Supply Chain Risk Intelligence, International Intermodal Logistics Consultant, and Associate Director, Supply Chain Management. Indeed.com listed 385 jobs available for Supply Chain Management in the West Palm Beach and Fort Lauderdale areas on 19 Sep 2021. According to EAB, "between September 2016 and November 2018, local employer demand for master's-level supply chain management professionals increased 106 percent (i.e., from 278 to 574 job postings). State employer

demand for master's-level supply chain management professionals increased from 888 to 1,853 job postings in the same time period (i.e., a 109 percent increase)".

### Employment of logisticians, by area, May 2020



*Note 2 Bureau of Labor Statistics Occupational Employment and Wages, May 2020*

The proposed MS in Supply Chain Management degree is designed to allow working professionals in the region to continue working full-time while they pursue their degree. The MS in Supply Chain Management would be of immediate interest to employees and management of FPL, NextEra, and JM Family Enterprises, who is in a partnership with the University to offer employees full tuition to attend courses online.

### **7. Identify any prerequisites or restrictions for acceptance into this program.**

A Bachelor's degree from a regionally accredited university is required for admission.

### **8. How will the unit monitor the quality and success of the self-supporting program? Provide specific metrics, evaluation methods, and frequency of evaluation.**

- Number of students enrolled: The number of students enrolled each year will vary. Enrollment is a function of market demand and economic conditions, as well as a



prospective student's self-assessment of their time and availability to commit to a program.

- Number of students graduating: The program structure reinforces timely graduation rates. The number of students for each program during each calendar year will be evaluated.
- Student satisfaction: A satisfaction score will be reported for each course. The score will measure a composite of items including program content, pedagogical effectiveness of the professor, and administrative services provided to the student.

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Department Chair/School Director

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Date

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*Anita Pennathur*

College Curriculum Committee

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9/24/2021

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Date

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*Ken Johnson*

Dean

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9/24/2021

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Date

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Executive Director COCE

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Date

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Senior Associate Provost

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Date

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University Curriculum Committee

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Date

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University Faculty Senate

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Date

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Chief Financial Officer

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Date

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Provost or Designee

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Date

## APPENDIX A

### BUDGET

| Master of Science in Supply Chain Management (MSSCM)                                                                                                                       | Year 2022/2023      | Year 2023/2024      | Year 2024/2025      | Year 2025/2026      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|
| Total Program Revenues                                                                                                                                                     | \$ 648,000          | \$ 945,000          | \$ 945,000          | \$ 945,000          |
| Total University Local Fees (\$68.11 per credit)                                                                                                                           | \$ 49,039           | \$ 71,516           | \$ 71,516           | \$ 71,516           |
| Total Total University Revenue Fee (5.5% in year 4)                                                                                                                        | \$ -                | \$ -                | \$ -                | \$ 48,042           |
| Total University Collected Revenues                                                                                                                                        | \$ 49,039           | \$ 71,516           | \$ 71,516           | \$ 119,557          |
| <b>Total Course Revenues College of Business</b>                                                                                                                           | <b>\$ 598,961</b>   | <b>\$ 873,485</b>   | <b>\$ 873,485</b>   | <b>\$ 825,443</b>   |
| <b>Total Direct Expenses</b>                                                                                                                                               | <b>\$ (339,510)</b> | <b>\$ (452,114)</b> | <b>\$ (452,114)</b> | <b>\$ (452,114)</b> |
| <b>Indirect Administrative Expenses</b>                                                                                                                                    |                     |                     |                     |                     |
| Dedicated Program Coordinator including S&B 0.5 FTE                                                                                                                        | \$ (36,850)         | \$ (36,850)         | \$ (36,850)         | \$ (36,850)         |
| Administration/Admission/IT/Fin Aid = 0.5 FTE at Coordinator Level                                                                                                         | \$ (36,850)         | \$ (36,850)         | \$ (36,850)         | \$ (36,850)         |
| <b>Total Indirect Administrative Expenses</b>                                                                                                                              | <b>\$ (73,700)</b>  | <b>\$ (73,700)</b>  | <b>\$ (73,700)</b>  | <b>\$ (73,700)</b>  |
| <b>Marketing Expenses</b>                                                                                                                                                  |                     |                     |                     |                     |
| Billboards per year                                                                                                                                                        | \$ (22,500)         | \$ (18,750)         | \$ (18,750)         | \$ (18,750)         |
| 1 page in Catalog 2 x 350,000 - Design Print & Mail (Actual)                                                                                                               | \$ (8,500)          | \$ (8,500)          | \$ (8,500)          | \$ (8,500)          |
| Digital Advertising (Search/Display/Social)                                                                                                                                | \$ (75,000)         | \$ (75,000)         | \$ (75,000)         | \$ (75,000)         |
| <b>Total Marketing Expenses Before Indirect Expenditures &amp; Overhead</b>                                                                                                | <b>\$ (106,000)</b> | <b>\$ (102,250)</b> | <b>\$ (102,250)</b> | <b>\$ (102,250)</b> |
| <b>Total Expenditures Before Indirect Expenditures &amp; Overhead</b>                                                                                                      | <b>\$ (519,210)</b> | <b>\$ (628,064)</b> | <b>\$ (628,064)</b> | <b>\$ (628,064)</b> |
| <b>Auxiliary Overhead Fee and Provost Fee from Expenditures</b>                                                                                                            | <b>\$ (73,676)</b>  | <b>\$ (89,122)</b>  | <b>\$ (89,122)</b>  | <b>\$ (89,122)</b>  |
| <b>Result</b>                                                                                                                                                              | <b>\$ 6,075</b>     | <b>\$ 156,298</b>   | <b>\$ 156,298</b>   | <b>\$ 108,256</b>   |
| We expect the College of Business to spend 80% of the yearly cash balance adding additional overhead revenues to the University.                                           |                     |                     |                     |                     |
| <b>Budget Details:</b>                                                                                                                                                     |                     |                     |                     |                     |
| <u><sup>1</sup>Revenue and Local Fees:</u>                                                                                                                                 |                     |                     |                     |                     |
| - Local fees per credit for athletics (\$19.27), financial aid (\$15.18), activity & service (\$12.32), health (\$9.42), capital improvement (\$6.76), technology (\$5.16) |                     |                     |                     |                     |
| - Gross revenue fee at 0% for the first three years, then 5.5% from year 4                                                                                                 |                     |                     |                     |                     |
| <u><sup>2</sup>Direct Expenses:</u>                                                                                                                                        |                     |                     |                     |                     |
| - Faculty salary at \$12,000 per class plus FICA                                                                                                                           |                     |                     |                     |                     |
| - Meals expense at \$20 per day per student                                                                                                                                |                     |                     |                     |                     |
| - Books, materials, and software estimated at \$125.00 per credit                                                                                                          |                     |                     |                     |                     |
| - Parking at \$185.84 per year                                                                                                                                             |                     |                     |                     |                     |
| <u><sup>3</sup>Indirect Expenses:</u>                                                                                                                                      |                     |                     |                     |                     |
| - Coordinator salary estimated at \$55,000 per year                                                                                                                        |                     |                     |                     |                     |
| - Marketing may fluctuate according to recruiting efforts                                                                                                                  |                     |                     |                     |                     |
| <u><sup>4</sup>Aux Overhead and Provost Fees:</u>                                                                                                                          |                     |                     |                     |                     |
| - Provost fee at 3% of expenditures                                                                                                                                        |                     |                     |                     |                     |
| - Auxiliary overhead fee at 11.19% of expenditures                                                                                                                         |                     |                     |                     |                     |