BACCALAUREATE PROPOSAL APPLICATION
Form No. BAAC-02

Section 1007.33(5)(d), Florida Statutes, and Rule 6A-14.095, F.A.C., outline the requirements for a Florida College System baccalaureate program proposal. The completed Proposal form shall by submitted by the college president to the Chancellor of the Florida College System at ChancellorFCS@fldoe.org. In addition, a printed version shall be mailed to the Division of Florida Colleges at 325 West Gaines Street, Suite 1544, Tallahassee, Florida 32399-0400.

The proposal requires completion of the following components:

- Program summary
- Program description
- Workforce demand and unmet need
- Planning process
- Enrollment projections and funding requirements
- Student costs: tuition and fees
- Program implementation timeline
- Facilities and equipment specific to program area
- Library and media specific to program area
- Academic content
- Program termination
- Appendix tables
- Supplemental materials

Florida College System Institution Name:	Miami Dade College (MDC)
Florida College System Institution President:	Dr. Eduardo Padrón

1.1	Program Name:	Data Analytics	
1.2	Degree type:	☒ Bachelor of Science	☐ Bachelor of Applied Science
1.3	How will the program be delivered (check all that apply):	☒ Face-to-face ☒ Hybrid	☐ Online only
1.4	List the counties in the college's service district:	Miami Dade County, Workforce District 23	
1.5	Degree CIP code (4 or 6 digit):	11.0101	
1.6	Anticipated program implementation date:	August 2016	
1.7	What is the primary associate degree pathway for admission to the program?	Associate in Science - Business Intelligence CIP 1552130101	
1.8	Is the degree a STEM focus area?	☒ Yes	☐ No
1.9	List program concentration(s) (if applicable):		

1.10	Will the program be designated such that an eligible student will be able to complete the program for a total cost of no more than $10,000 in tuition and fees?	☒ Yes	☐ No

2.1 Describe the program.

Data Analytics is an essential 21st century technology, related to the emerging field of data science, and connected to the explosion of "Big Data."

The Bachelor of Science (BS) in Data Analytics program at Miami Dade College (MDC) is designed to meet the growing workforce demands for professionals skilled in data interpretation, data analysis, and manipulation across a spectrum of industries. The BS in Data Analytics will address the current and the future demand by training professionals to identify, analyze, interpret and present the growing volumes of data that are available to organizations in the Information Age.

Through the cross-disciplinary curriculum, students will learn to discover patterns and relationships in large data sets, resolve business questions, make data-driven decisions, and effectively communicate informed tactical and strategic business objectives.

The interdisciplinary program includes content from three academic areas - Computer Science, Mathematics, and Business. As a result of program completion, students will acquire skills in statistics and probability, predictive analytics algorithms, data mining, data visualization, data security and governance, big data and business intelligence. As part of the degree completion requirements, a capstone course will provide students with the opportunity to synthesize their learning by developing solutions for real-world problems in data mining and analytics.

The School of Engineering and Technology at MDC has an established tradition of swift response to industry needs for skilled employees. Two existing BS degrees at MDC, Electronics Engineering Technology (2008) and Information Systems Technology (2013), are examples of timely response to training technology specialists for the workforce. The explosion of the new field of Data Analytics merits an innovative approach to training workers in the mining, manipulation, analysis, and applications of data in business technology solutions. Data analytics "has emerged as an essential tool for decision making and innovation in a wide range of organizations. The demand for data science experts and data analytics-enabled graduates will grow exponentially to meet the workforce needs of business, government, scientific and research organizations, and cultural institutions (Business-Higher Education's April 2014 Issue Brief).

In addition, this program provides a structured pathway through a specifically-

designed College Credit Certificate and an Associate in Science degree in Business Intelligence, leading to the BS in Data Analytics. Finally, the program will also provide articulation opportunities for students graduating with associate in science degrees in information technology, business and mathematics disciplines, as well as for graduates with associate in arts degrees.

WORKFORCE DEMAND AND UNMET NEED

3.1 **Describe the career path and potential employment opportunities for graduates of the program.**

The need for data analysts to prepare and analyze large data sets exists across all modern industries. A major impediment to the widespread use of big data is the lack of workers with the appropriate training and skills. Employment opportunities for data analysts are abundant in both public and private sectors, including healthcare, business, finance, manufacturing, energy, education, government and science. Gartner Research predicted that "by 2015, 4.4 million IT jobs globally will be created to support big data, generating 1.9 million IT jobs in the United States…In addition, every big data-related role in the U.S. will create employment for three people outside of IT, so over the next four years a total of 6 million jobs in the U.S. will be generated by the information economy." Likewise, In its report titled Big Data: The Next Frontier for Innovation, Competition and Productivity, McKinsey Global Institute estimated a gap of 140,000–190,000 to fill the demand for deep analytical talent that will be required by 2018 (2011). The BS in Data Analytics will help fill the workforce needs that Gartner Research and McKinsey Global Institute predict, particularly in the Miami area.

The BS in Data Analytics was, by design, developed as an intentional career pathway comprised of stackable credentials. This pathway includes shorter-term credentials with labor market value that enables an accelerated entrance to the job market with incremental growth opportunities. A College Credit Certificate in Business Intelligence Professional consisting of 20 credits leads to a 60 credit AS in Business Intelligence, which in turn provides the foundation for seamless transition to the BS in Data Analytics (Appendix D) leading to improved career opportunities and professional advancement in a cutting edge technology field.

Data Analytics graduates will work at a wide variety of companies in industries like banking and financial services, market research, energy, gaming, pharmaceuticals, and others. Employer types range from new ventures to large multinational companies, and the types of jobs range from entry level analysts for certificate and associate degree holders to managerial level positions for bachelor graduates.

For BS in Data Analytics graduates who want to continue their studies, there will also be opportunities to enter graduate level programs. According to the Business-Higher Education Forum's April 2014 Issue Brief, "Today, most

higher education data science programs are located within the school of engineering and/or the department of computer science. These programs serve as post-baccalaureate training for individuals who already have a strong grasp of analytical thinking, applied mathematics, and competency in computer programming." The BS in Data Analytics will provide its graduates with the necessary training to be successful in a related master's degree.

3.2 **Describe the workforce demand, supply and unmet need for graduates of the program that incorporates, at a minimum, the shaded information from appendix tables A.1.1 to A.1.3.**

Data Analytics is a new and emerging field and no distinct SOC for data analytics exists. According to the Bureau of Labor Statistics (BLS), in its Occupational Outlook Quarterly Fall 2013, the discipline of Data Analytics is new - it does not have its own CIP or SOC designations. The report states, "The growth in big data will continue to expand the kinds of work that use this information. BLS classifies these workers as statisticians or computer programmers or in other occupations. Whatever their title, these workers study big data using both conventional and newly developed statistical methods. Many of the new methods were developed specifically for use with big data. These workers run computer programs or algorithms… to detect patterns or to find usable information. The data are so complex that the workers use software that has been specifically designed to analyze large, unstructured datasets."

Since Data Analytics is a new and emerging field, no distinct CIP for data analytics exists. CIP 11.0101 has been selected as most closely related. As per the CIP to Standard Occupational Classification (SOC) crosswalk of the U.S. Department of Education, job titles include Computer and Information Systems Managers, Computer Systems Analysts, Database Administrators, Network and Computer Systems Administrators, Computer Network Architects, Computer Occupations, All Other, and Computer Science Teachers, Postsecondary. However, using these alone in the analysis of the need is inadequate, as presented in section 3.3.

Based on current projections, as per the instructions within Appendix Table A.1.1, a total of 140 job openings in the field will be needed annually over the next five years at an average hourly rate of $43.87 and an attractive median annual salary of $91,266. The local universities on average award 68 degrees within CIP 11.0101 for an estimated unmet need of 72 openings. It is important to note that the CIP 11.0101 degrees offered at local universities presented in the Appendix Table A.1.2 differ significantly in focus from the Data Analytics degree proposed in this application. Current university programs are traditional computer science degrees. And while the graduates of these programs may be considered for Data Analytics related jobs due to their strong grasp of analytical thinking, applied mathematics, and competency in computer programming, employers must invest considerable professional development resources to train graduates in competencies they lack - statistics and probability, predictive analytics algorithms, data mining, data visualization, and business intelligence.

More importantly, the unmet need shown in Table A.1.3 does not reflect the magnitude of the need as explained in 3.3.

3.3 **Describe any other evidence of workforce demand and unmet need for graduates as selected by the institution, which may include qualitative or quantitative data information, such as local economic development initiatives, emerging industries in the area or evidence of rapid growth, not reflected in the data presented in appendix tables A.1.1 to A.1.3. For proposed programs without a listed SOC linkage, provide a rationale for the identified SOC code(s).**

While the estimates of unmet need in Table A.1.3 depict a modest unmet need, we do not believe this is an accurate reflection of the current or future employment landscape. A search for "analytics" in the Occupational Handbook to O*Net Online, yields related occupational titles that among the ones presented in Table A.1.1. under the CIP 11.0101, also include Management Analysts (SOC 13-1111), Market Research Analysts (13-1161), and Financial Analysts (13-2051). These are the occupations that are included in Table A.1.2 and most closely align with the emerging profession on which MDC has based its workforce demand analysis. Based on current projections, 452 job openings in the field will be needed in the next five years, all requiring Bachelor's Degree, at an average hourly rate of $30.89 and a median annual salary of $64,251. This number (452) in addition to the 72 included in Table A.1.3 equals an annual unmet need of 524 openings. These data solidly demonstrate there is an unmet need in this emerging field regionally that the CIP to SOC crosswalk does not yet reflect.

3.4 **If the education level for the occupation identified by the Florida Department of Economic Opportunity presented in appendix table A.1.1 is below a bachelor's degree, provide justification for the inclusion of that occupation in the analysis.**

Although the Florida Department of Economic Opportunity specifies the educational requirement for Computer Systems Analysts, Network and Computer System Administrators and Database Administrators as an Associate Degree, the Bureau of Labor Statistics (BLS) and O*Net Online state that most of the occupations require a bachelor's degree.

4.1 Summarize the internal planning process.

5-Mar-14 School of Engineering + Technology Industry Technology Advisory Committee – School Director, Dr. Babic, briefed the committee on the Winter BHEF (see below) meeting discussion about the critical shortage of data science/data analysts. The

committee gave its support of developing a degree program to address this shortage in Miami-Dade County and offered its assistance in developing the curriculum.

9-Sept-14	The School of Engineering + Technology (EnTech) Industry Technology Advisory Committee reviewed a proposed lower division associate in science degree in Business Intelligence that will feed into the into the bachelor's degree program in Data Analytics.
2-Mar-15	Industry DACUM - EnTEC conducted a DACUM (Developing a Curriculum) with industry representatives to identify the skills, knowledge and attributes that the workforce requires of data analysts.
3-Mar-15	Faculty DACUM - an interdisciplinary team of MDC faculty and administrators used the information from the industry as input to begin to develop a curriculum to meet stated workforce needs including identifying specific courses and initial course sequencing.
7-Apr-15	Data Analytics faculty discipline committee meeting reviewed DACUM report and drafts of competencies for four courses.
17-Apr-15	Data Analytics faculty discipline committee meeting developed program learning outcomes, identified common course prerequisites; assigned course development responsibilities.
6-Jun-15	Discipline committee reviewed program curriculum drafts and course sequencing.
28-Jul-15	Internal planning session on the Data Analytics baccalaureate degree was held and a preliminary timeline for proposal deliverables were developed.
01-Sep-15	Internal planning defined the timeline for program approval documentations to include APPRiSE notification, Notice of Intent and BS Proposal to the Department of Education and the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).
10-Nov-15	Presentation of the program curriculum to the MDC Executive Committee.
17-Nov-15	Presentation and approval of program summary to the MDC Board of Trustees (Appendix E).
01-Dec-15	Program development information letter submitted to SACSCOC. (Appendix H)

01-Dec-15 Notice of Intent (NOI) submitted to FLDOE.

3-Nov-15 to 16-Feb-16

Curriculum and course program sheet finalized and submitted to industry partners for feedback.

21-Jan-16 to 19-Apr-16

Program curriculum submitted for review to the Academic Leadership Council, Campus and College Academic and Student Support Councils (CASSC) and Board of Trustees for final approval.

19-Apr-16

BOT presentation and approval to submit proposal (Appendix G).

21-Apr-16 Full proposal submitted to the State of Florida Department of Education.

Summer 2016 Marketing and recruitment.

Fall 2016 Program launch.

Summarize the external planning process

4.2

Fall 2014 The Business Higher Education Forum (BHEF) is a national business/higher education collaboration to address critical workforce needs facing the nation. MDC's president, Dr. Eduardo Padron chairs BHEF's Executive Committee. BHEF identified data analytics/data science as an emerging technology in which there is a severe shortage of professionally trained workers. At the direct request of and invitation from BHEF, Miami Dade College's Workforce Development department initiated the development of a program in data analytics.

2-Mar-15 Industry DACUM - EnTEC conducted a DACUM (Developing a Curriculum) with industry representatives to identify the skills, knowledge and attributes that the workforce requires of data analysts.

1-May-15 Sent DACUM report to industry partner participants for feedback; the draft of proposed program sheet and course descriptions were sent to industry partners for review and feedback

2-Sep-15 Per 4.3 below, Vice Provost, Dr. Alexander, submitted the APPRiSE notification.

4-Sep-15 Per 4.3 below, MDC Provost, Dr. Rodicio, contacted the local institutions' Provosts.

8-Sep-15 Per 4.3 below, Dr. Babic contacted the academic deans at the local institutions notifying them about MDC's intention to submit a proposal for a data analytics baccalaureate degree and requesting meetings.

01-Dec-15 President Padron submitted Notice of Intent to FLDOE

01-Dec-15 President Padron submitted intent of program development letter to SACSCOC

19-Apr-16 President Padron submited initial proposal to FLDOE

13–Jun-16 FLDOE returned proposal with feedback

4.3 List of engagement activities; this list shall include APPRiSe, meetings, and other forms of communication among institutional leadership regarding evidence of need, demand, and economic impact.

	Date(s)	Institution	Description of activity
APPRiSE	September 2, 2015		Miami Dade College (MDC) submitted electronic APPRiSe notification
Public universities in college's service district	September 4, 2015	Florida International University (FIU)	MDC Provost, Dr. Lenore Rodicio, contacted FIU Provost, Dr. Kenneth Furton, via email notifying him of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to the Florida Department of Education (FLDOE).
	September 8, 2015	Florida International University	Dr. Djuradj Babic, Director of MDC's School of Engineering + Technology contacted FIU Dean Ranu Jung, via email, notifying him of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to the Florida Department of Education and requesting a

			meeting to discuss program plans and collaborations.
Regionally accredited institutions in the college's service district	September 4, 2015	University of Miami (UM)	MDC Provost, Dr. Lenore Rodicio, contacted UM Provost, Dr. Thomas LeBlanc, via email notifying him of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to FLDOE.
	September 4, 2015	St. Thomas University	MDC Provost, Dr. Lenore Rodicio, contacted St. Thomas University Provost, Dr. Becerra-Fernandez, via email notifying her of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to FLDOE.
	September 4, 2015	Barry University	MDC Provost, Dr. Lenore Rodicio, contacted Barry University Provost, Dr. Christopher Starratt, via email notifying him of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to FLDOE.
	September 8, 2015	St. Thomas University	Dr. Djuradj Babic, Director of MDC's School of Engineering + Technology contacted St. Thomas University Dean. Wim Steelant, via email, notifying him of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to FLDOE and requesting a meeting to discuss program plans and collaborations.
	September 8, 2015	University of Miami	Dr. Djuradj Babic, Director of MDC's School of

			Engineering + Technology contacted Dean Eugene Andersen at the UM, via email, notifying him of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to FLDOE and requesting a meeting to discuss program plans and collaborations.
	September 8, 2015	Barry University	Dr. Djuradj Babic, Director of MDC's School of Engineering + Technology contacted St. Thomas University Dean Tomislav Mandakovic, via email, notifying him of MDC's intent to submit a Notice of Intent for a new Bachelor of Science program in Data Analytics to FLDOE and requesting a meeting to discuss program plans and collaborations.
Feedback to posting in APPRISE system	September 25, 2015	Florida Polytechnic University	Kevin Calkins of Florida Polytechnic University posted FPU's support of the program in the APPRISE system, i.e., "*Florida Polytechnic University supports this degree program due to workforce demands for graduates with operational skills in data analytics."*
	October 5, 2015	Florida International University	Dr. Lenore Rodicio, MDC Provost, had a telephone conversation with Dr. Elizabeth Bejar, VP Academic Affairs at FIU. Dr. Bejar expressed support for MDC's development of the baccalaureate in Data Analytics and requested a meeting to explore a 4+1 option for the MS program

			FIU is currently developing in the same field

ENROLLMENT PROJECTIONS AND FUNDING REQUIREMENTS

5.1 Provide a brief explanation of the sources and amounts of revenue that will be used to start the program.

Sources of revenue for the program will be generated from tuition and Florida College System Program Funds. As evident from the Appendix Table A.2 Section III, the program will be fully self-sustaining from the collected tuition by its third year, based on the following projections: 30 students enrolled initially; 60 students recruited annually; and each student is enrolled in 8 credits per major semester or 16 credits per academic year. We anticipate relying on Florida College System Program Funds primarily during the first implementation year ($101,517 as indicated in Section III.A.5 of the Appendix Table A.2) and negligibly during the second implementation year ($5,454 as indicated in Section III.A.5 of the Appendix Table A.2). During the third implementation year, collected tuition revenue are expected to cover the program operational costs.

5.2 Provide a narrative justifying the estimated and projected program enrollments, outcomes, revenues and expenditures as they appear in Appendix Table A.2.

Enrollment projections are based on 30 students (16 FTEs) beginning in August 2016, and increasing to 210 students (112 FTEs) by 2019-2020.
The projected program enrollment indicates an increase of 60 students in each consecutive year reaching a total of 210 first time admitted students in year 4, or a total enrollment of 480 students in the program in year 4 (see Appendix Table A.2).

In September 2015, student interest was gauged through a survey - 240 MDC current students taking technology courses targeted. The sample included students in select databased-related courses enrolled in fall 2015- CGS1540 Database Concepts, CTS1437 Microsoft SQL Administration, CTS2433 Microsoft SQL Implementation.

One hundred and thirty (130) students comprised a survey response rate of 54%, divided among associate in arts and associate in science selected majors (see Appendix B). Seventy-five percent (75%) (n=97) of respondents indicated interest in pursuing a Bachelor's Degree in Data Analytics. The number of interested students reflects enrollment projections of new students in year 2 of the program, in fall 2017.

MDC is poised to meet all attributes indicated by respondents as important when deciding which institution to attend in pursuit of a Bachelor's degree. Those included costs (85%), location/ease of access (84%), flexibility in scheduling courses (78%), and quality of the institution/program (76%). Other factors

important in students' decision making in enrollment in Data Analytics included relation to students' career plans (79%), availability of technology (55%), fits around my work and family (54%), and availability of financial aid (54%).

The proposed program builds on the existing MDC departmental infrastructure for information systems technology. The projected expenditure for academic years 2016 through 2020 averages $246,370.

Revenue from student fees and other sources is projected to be $985,479 for the 4-year start-up period. It is projected that the program will be self-sustained by the 2018-2019 academic year.

STUDENT COSTS: TUITION AND FEES

6.1 Anticipated cost for a baccalaureate degree (tuition and fees for lower and upper division credit hours) at the proposing FCS institution (tuition and fees x credit hours).

Florida residents	Cost per credit hour			Number of credit hours		Total cost
Tuition & Fees for lower division:	$118.22	**X**	Credit hours	60	=	$7,093.20
Tuition & Fees for upper division:	$129.89	**X**	Credit hours	60	=	$7,793.40
Tuition & Fees (Total):	$	**X**	Credit hours		=	$14,886.60

6.2 Estimated cost for a baccalaureate degree (tuition and fees) at each state university in the college's service district.

Institution Name: Florida International University

Tuition & Fees:	$ 205.57	**X**	Credit hours	120	=	$24,668.40

6.3 Estimated cost for a baccalaureate degree (tuition and fees) at each nonpublic institution in the college's service district (if available)*

Institution Name: University of Miami

Tuition & Fees:	$1,079.00	**X**	Credit hours	120	=	$129,120.00

Note. *If the institution does not provide the tuition cost per credit hour, please provide the cost information provided on the institution's website.

PROGRAM IMPLEMENTATION TIMELINE		
7.1	APPRiSe notice:	2-Sep-15
7.2	Board of Trustees approval (to submit letter of intent):	17-Nov-15
7.3	Notice of Intent:	01-Dec-15
7.4	Completed proposal submission for internal review and (BOT) approval:	19-April-16
7.5	Targeted State Board of Education consideration:	21-July-16
7.6	Targeted SACSCOC approval (if applicable):	N/A
7.7	Targeted initial teacher preparation program approval (if applicable):	N/A
7.8	Targeted date upper division courses are to begin:	Aug-16

FACILIITES AND EQUIPMENT SPECIFIC TO PROGRAM AREA

8.1 Describe the existing facilities and equipment that will be utilized for the program.

The proposed program will take full advantage of current facilities available throughout MDC. There are 24 technology equipped classrooms and a total of 1,412 technology workstations available across MDC's three major campuses (Wolfson, Kendall, and North).

8.2 Describe the new facilities and equipment that will be needed for the program (if applicable).
N/A

LIBRARY AND MEDIA SPECIFIC TO PROGRAM AREA

9.1 Describe the existing library and media resources that will be utilized for the program.

Current library's electronic book holdings and subscriptions to electronic technology databases are adequate to support the proposed program pre-requisite courses. Existing faculty personnel will support the discipline with material selection and instructional needs. Furthermore, current library's electronic learning spaces and the supporting hardware are adequate to support the needs of the proposed program for the enrollment projected in the Appendix Table A.2.

9.2 Describe the new library and media resources that will be needed for the program (if applicable).

A budget of $10,625 is allotted for the initial set-up of program resource materials

during the launch year and $4000 per year for the next three years to cover the costs of supplementing the library's electronic book holdings and maintaining subscriptions to electronic technology databases. No cost is included for library renovations since the electronic/digital resources will be "housed" virtually and be available college-wide.

ACADEMIC CONTENT

10.1 List the admission requirements for the program.

The BS in Data Analytics is designed to provide seamless articulation for the AS in Business Intelligence. Associate in Science graduates entering with other technology program majors (computer programming and analysis, database administration, networking services technology, computer information technology) may be required to take additional credit hours of common prerequisite courses. The program also accommodates students entering with an Associate in Arts (AA) degree and students with a minimum of 60 semester hours from a regionally accredited institution.

Admission requirements include:

- Students must submit a completed Miami Dade College Admissions and Supplemental Application
- An Associate in Science in Business Intelligence, a technology-related AS degree or AA degree from a regionally accredited institution

-or-

- A minimum of 60 semester hours from a regionally accredited institution including:
    - Completed the approved common pre-requisite courses (CPC) applicable to the program, i.e., CTS1437 Microsoft SQL ADM, CTS2433 Microsoft SQL Implementation, STA2023 Statistical Methods, GEB2XXX Introduction to Business Analytics.
    - ENC 1101, English Composition I, or its equivalent
    - A minimum cumulative GPA of 2.5 or higher on a 4.0 scale
    - A minimum of 2.5 or higher on a 4.0 scale in all Common Prerequisite courses [Note: Common Prerequisites (technology courses) necessary for program admission should be earned within 5 years prior to admission to the baccalaureate degree. If the technology course credits are more than 5 years old, students must consult an academic advisor.
- Foreign Language:
    - Students admitted to the baccalaureate degree program without meeting the foreign language admission requirement must complete such requirements prior to graduation.
    - If satisfying the requirement by high school courses, high school transcript must be presented.
- Student Acknowledgement of Responsibilities (signed).
- All financial obligations to MDC satisfied.

Students entering with an AS degree may need additional General Education credits to meet the 36 General Education credits required for the baccalaureate degree. Students entering

with an AAdegree may need additional lower division electives to provide appropriate technical background for the baccalaureate program.

10.2 What is the estimated percentage of upper division courses in the program that will be taught by faculty with a terminal degree?

The Principles of Accreditation 3.5.4, Southern Association of Colleges and Schools (SACS)

In accordance with the Southern Association of Colleges and Schools (SACS), at least 25% of the upper division coursework in the proposed BS-DA will be taught by faculty with a terminal degree. Table 5 below indicates current faculty credentialing.

Miami Dade College Full time and Part Time Technology Faculty

Campus	Full Time Technology Faculty		Part Time Technology Faculty	
		Terminal Degree		Terminal Degree
Hialeah	2	0	6	1
Homestead	2	0	5	0
InterAmerican	3	1	6	0
Kendall	7	1	43	2
North	4	2	27	0
West	0	0	7	0
Wolfson	5	2	33	2
Subtotal	**23**	**6**	**127**	**5**
Total	**29**		**132**	

10.3 What is the anticipated average student/teacher ratio for each of the first three years based on enrollment projections?

In the first year of the program, enrollment is projected to be 30 students For lecture and lab courses, a maximum student to teacher ratio will be 30:1. MDC is committed to this student ratio for both lower and upper division technology courses.

10.4 What is the anticipated SACSCOC accreditation date, if applicable?

N/A, Notification was sent indicating MDC's intent to offer a BS in Data Analytics and we received SACSCOC acknowledgement on April 4, 2016. No additional information or approval is necessary.

10.5 What is the anticipated Florida Department of Education initial teacher preparation approval date, if applicable?
N/A

10.6 What specialized program accreditation will be sought, if applicable?
N/A

10.7 What is the anticipated specialized program accreditation date, if applicable?

N/A

10.8	Are there similar programs listed in the Common Prerequisites Manual for the CIP code (and track, if any) proposed for this program?	☐ Yes	☒ No

No. While there are bachelor degrees under this CIP (11.0101), none are similar to the BS in Data Analytics being proposed. Therefore, the proposed common prerequisite courses are CTS1437 Microsoft SQL ADM (4 credits), CTS2433 Microsoft SQL Implementation (4 credits), STA2023 Statistical Methods (3 credits), GEB2100 Introduction to Business Analytics (3 credits). All listed prerequisites are major course requirements in the AS degree in Business Intelligence and will be completed by students entering the BS in Data Analytics.

10.9 List the established common prerequisites for this CIP code (and track, if any) as listed in the Common Prerequisites Manual proposed for this program:

There are no established common prerequisites that align with the BS in Data Analytics.

10.10 Describe any proposed revisions to the established common prerequisites for this CIP (and track, if any).
N/A

10.11 List all courses required once admitted to the baccalaureate program by term, in sequence. For degree programs with concentrations, list courses for each concentration area. Include credit hours per term, and total credits for the program

	Course Description	**Credit Hours**
First Term – 15 credit hours		
CTS3452	Business Intelligence	4
STA3164	Statistical Methods 2	4
CIS3368	Data Security and Governance	4
	GenEd	3
Second Term – 13 credit hours		
GEB3522	Applied Business Analytics	3
STA4210	Regression Analysis	4
	GenEd	3
	GenEd	3
Summer Term – 7 credit hours		
COP3533	Predictive Analytics Algorithms	4
	GenEd	3
Third Term – 14 credit hours		
CAP4770	Data Mining	4
CAP4737	Data Visualization	4
	GenEd	3
	GenEd	3
Fourth Term – 11 credit hours		

CAP4XXX	Capstone Project, Data Analytics	4
CIS48XX	Big Data	4
	GenEd	3
Total Credit Hours		60

10.12 Is the program being proposed as a limited access program? (If yes, identify admission requirements and indicate enrollment capacity) ☐ Yes ☒ **No**

PROGRAM TERMINATION

11.1 Plan of action if program must be terminated, including teach-out alternatives for students.

As mandated by the State Board of Education, Miami Dade College will demonstrate diligence to individual needs in the event of program termination and will enact an approved degree completion plan to enable eligible students to complete the appropriate BS-DA degree program coursework following the termination decision to include transition services, "teach-out" options, and options for students to complete with other area institutions.

Appendix Table A.1.

INSTRUCTIONS FOR COMPLETING THE DEMAND SECTION OF APPENDIX TABLE A.1: To complete the following table, use the CIP to Standard Occupational Classification (SOC) crosswalk of the U.S. Department of Education to identify the SOC codes for occupations associated with the proposed program's CIP code. Fill in Table A.1.1 using the employment projections data produced by the Florida Department of Economic Opportunity (DEO), pursuant to Section 445.07, F.S., for the workforce region aligned with the college's service district for each SOC code associated with the proposed program's CIP code. The employment projections data may be accessed at http://www.floridajobs.org/labor-market-information/data-center/statistical-programs/employment-projections. For proposed programs without a listed SOC linkage, identify the appropriate SOC codes for which the program prepares graduates. Insert additional rows as needed. The total job openings column value shall be divided by eight to reflect total annual job openings. The annualized salary shall be calculated by multiplying the average hourly wage times 40, and then multiplying that value times 52.

DEMAND: FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY (DEO) EMPLOYMENT PROJECTIONS

A.1.1

Occupation			Number of Jobs				Salary		
Name/Title	SOC Code	County/ Region	Base Year	Projected Year	Level Change	Total Job Openings (divided by 8)	Avg. Hourly Wage	Annualized Salary	Education Level
Computer and Information Systems Managers	113021	23	1,189	1,331	142	18	$61.89	$128,731	Bachelor's Degree
Computer Systems Analysts	151121	23	2,215	2,672	457	57	$42.41	$88,213	Associate Degree
Database Administrators	151141	23	872	964	92	12	$37.72	$78,548	Associate Degree
Network and Computer Systems Administrators	151142	23	1,868	2,035	167	21	$38.12	$79,290	Associate Degree
Computer Network Architects	151143	23	1,443	1,612	169	21	$34.70	$72,176	Postsecondary Vocational
Computer Occupations, All Others	151199	23	652	689	37	5	$38.84	$80.787	Postsecondary Vocational
Computer Science Teachers, Postsecondary	251021	23	256	303	47	6	$53.42	$111, 114	Bachelor's Degree
					Total	**140**	**$43.87**	**$91,266**	

DEMAND: OTHER ENTITY INDEPENDENT OF THE COLLEGE – (FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY (DEO) EMPLOYMENT PROJECTIONS FOR RELATED SOC)

A.1.1.2

Occupation			Number of Jobs				Salary		Education Level
Name/Title	SOC Code	County/ Region	Base Year	Projected Year	Level Change	Total Job Openings	Avg. Hourly Wage	Annualized Salary	

Management Analysts	131111	23	5,655	6,814	1,159	230	$32.36	$67,308	Bachelor's Degree
Market Research Analysts	131161	23	3,384	4,255	871	154	$26.88	$55,910	Bachelor's Degree
Financial Analysts	132051	23	1,643	1,875	232	68	$33.43	$69,534	Bachelor's Degree
					Total	**452**	**$30.89**	**$64,251**	

INSTRUCTIONS FOR COMPLETING THE SUPPLY SECTION OF APPENDIX TABLE A.1: To complete the following table, use the Integrated Postsecondary Education Data System of the National Center for Education Statistics to identify the number of degrees awarded by other regionally accredited postsecondary institutions in the college's service district under the same or related CIP code(s) as the proposed program. The data center is located at http://nces.ed.gov/ipeds/datacenter/. Include degrees awarded for the most recent year available and for the four prior years for each program. If the program has not had degrees awarded for five years or more, add the degrees awarded for the years available, and divide by that number of years, for the average.

SUPPLY: NATIONAL CENTER FOR EDUCATION STATISTICS, INTEGRATED POSTSECONDARY EDUCATION DATA SYSTEM

A.1.2

Program		**Number of Degrees Awarded**					
Institution Name	**CIP Code**	**2009-2010**	**2010-2011**	**2011-2012**	**2012-2013**	**2013-2014**	**5-year average or average of years available if less than 5 years**
Florida International University	11.0101	53	62	62	58	60	59
St Thomas University	11.0101	7	3	5	2	2	3
Barry University	11.0101	4	7	1	7	9	6
					Total	71	68

INSTRUCTIONS FOR COMPLETING THE ESTIMATES OF UNMET NEED SECTION OF APPENDIX TABLE A.1: To complete the following table, the total in column A should be derived from the total job openings from Table A.1.1 and the totals in columns B and C should be derived from Table A.1.2. Input the figures in the "Total" row in Table A.1.1 for total job openings and

Table A.1.2 for most recent year and 5-year average. The range of estimated unmet need should be derived from 1) subtracting the figure in column B from the figure in column A and 2) subtracting the figure in column C from the figure in column A.

ESTIMATES OF UNMET NEED					
A.1.3	**DEMAND**	**SUPPLY**		**RANGE OF ESTIMATED UNMET NEED**	
	(A)	**(B)**	**(C)**	**(A-B)**	**(A-C)**
	Total Job Openings (divided by 8)	**Most Recent Year 2013-2014**	**5-year average or average of years available if less than 5 years**	**Difference**	**Difference**
Total	140	71	68	69	72

Appendix Table A.2

INSTRUCTIONS FOR COMPLETING THE PROJECTED BACCALAUREATE PROGRAM ENROLLMENT SECTION OF APPENDIX TABLE A.2: To complete the following table, enter the projected enrollment information for the first four years of program implementation. Unduplicated headcount enrollment refers to the actual number of students enrolled. Full-time equivalent (FTE) refers to the full-time equivalent of student enrollment.

PROJECTED BACCALAUREATE PROGRAM ENROLLMENT					
		Year 1	Year 2	Year 3	Year 4
A.2.1	Unduplicated headcount enrollment:				
A.2.1.1	Admitted Student Enrollment (First-time)	30	90	150	210
A.2.1.2	Total Admitted Student Enrollment	30	120	270	480
A.2.2	FTE Enrollment:				
A.2.2.1	Program Student Credit Hours (Resident)	480	1,440	2,400	3,360
A.2.2.2	Program Student Credit Hours (Non-resident)	0	0	0	0
A.2.2.3	Total Program Student Credit Hours	480	1,440	2,400	3,360

A.2.2.4	Program FTE (30 credits) - (Resident)	16	48	80	112
A.2.2.5	Program FTE (30 credits) - (Non-resident)	0	0	0	0
A.2.2.6	Total Program FTE	16	48	80	112

INSTRUCTIONS FOR COMPLETING THE PROJECTED DEGREES AND WORKFORCE OUTCOMES SECTION OF APPENDIX TABLE A.2: To complete the following table, enter the projected number of degrees awarded, the projected number of graduates employed and the projected average starting salary for program graduates for the first four years of program implementation.

PROJECTED DEGREES AND WORKFORCE OUTCOMES					
		Year 1	Year 2	Year 3	Year 4
A.2.3	Degrees	0	21	63	105
A.2.4	Number Employed	0	0	16	47
A.2.5	Average Starting Salary	$0	$70,000	$70,000	$70,000

INSTRUCTIONS FOR COMPLETING THE REVENUES AND EXPENDITURES SECTION OF APPENDIX TABLE A.2: To complete the following table, enter the projected program expenditures and revenue sources for the first four years of program implementation.

REVENUES AND EXPENDITURES				
I. PROJECTED PROGRAM EXPENDITURES	Year 1	Year 2	Year 3	Year 4
INSTRUCTIONAL				
1. Faculty Full-Time FTE	1.0	1.0	2.0	2.0
2. Faculty Part-Time FTE	0.0	1.0	1.0	2.0
1. Faculty Full-Time Salaries/Benefits	68,888	68,888	137,775	137,775
2. Faculty Part-Time Salaries/Benefits	0	13,391	13,391	26,783
3. Faculty Support: Lab Assistants	10,240	10,240	20,480	20,480
OPERATING EXPENSES				
1. Academic Administration	41,045	42,276	43,544	44,851

2. Materials/Supplies	1,966	1,966	1,966	1,966
3. Travel	0	2,000	3,000	4,000
4. Communication/Technology	0	5,000	5,000	0
5. Library Support	0	0	0	0
6. Student Services Support	21,102	21,735	22,387	23,058
7. Professional Services	0	0	0	0
8. Accreditation	0	0	0	0
9. Support Services	10,000	15,000	20,000	25,000
CAPITAL OUTLAY				
1. Library Resources	10,625	4,000	4,000	4,000
2. Information Technology Equipment	0	8,000	8,000	0
3. Other Equipment	0	0	0	0
4. Facilities/Renovation	0	0	0	0
TOTAL PROJECTED PROGRAM EXPENDITURES	**163,864**	**192,495**	**279,543**	**287,912**
II. NATURE OF EXPENDITURES				
1. Recurring	153,864	180,495	267,543	283,912
2. Nonrecurring	10,625	12,000	12,000	4,000
TOTAL	**163,864**	**192,495**	**279,543**	**287,912**
III. SOURCES OF FUNDS				
A. REVENUE				
1. Special State Nonrecurring	0	0	0	0
2. Upper Level - Resident Student Tuition Only	62,347	187,042	311,736	436,430
Upper Level - Nonresident Student Fees Only	0	0	0	0
Upper Level - Other Student Fees	0	0	0	0
3. Contributions or Matching Grants	0	0	0	0
4. Other Grants or Revenues	0	0	0	0
5. Florida College System Program Funds	101,517	5,454	0	0
6. Unrestricted Fund Balance	0	0	0	0
7. Interest Earnings	0	0	0	0
8. Auxiliary Services	0	0	0	0
9. Federal Funds – Other	0	0	0	0
B. CARRY FORWARD	0	0	0	0
TOTAL FUNDS AVAILABLE	**163,864**	**192,495**	**311,736**	**436,430**

TOTAL UNEXPENDED FUNDS (CARRY FORWARD)	**0**	**0**	**32,193**	**148,518**

Supplemental Materials B.1

SUPPLEMENTAL MATERIALS

B.1 Summarize any supporting documents included with the proposal, such as meeting minutes, survey results, letters of support, and other supporting artifacts.

Attached as appendices are meeting minutes, results of the industry and student surveys, and letters of support from local employers:

AppendixA Summary of Industry Survey Results
AppendixB Student Interest Survey Summary
AppendixC Discipline Meeting Minutes
Appendix D Pathway to BS in Data Analytics /Stackable Credentials
AppendixE Letters of Support
Appendix F BOT Authorization to Submit Letter of Intent
Appendix G BOT Authorization to Submit Proposal
Appendix H Notification of Intent to Offer to SACSCOC

B.2 List any objections or alternative proposal received from other postsecondary institutions for this program.

No objections have been received. The proposed program has been endorsed by Florida International University (FIU) and Florida Polytechnic University. FIU has requested a meeting to discuss collaborating with MDC on a 4+1 program with their Master's program in Data Science that is currently under development.

Appendix A

Summary of Industry Survey Results

In September 2015, a survey was sent to 25 industry representatives. There was a 60% response rate (n=15) from organizations representing education, finance, government, health services, information technology, professional services, logistics and wholesale trade.

How many positions for dedicated data analysts or requiring data analytics skills? Responses ranged from 30 – 200 jobs.

100% said it is very difficult (n=11) or difficult (n-4) to recruit individuals for data analytics positions.

87% (n=13) said that the demand for data analytics professionals will grow rapidly in the next 5 years.

73% (n=11) said a bachelor's degree is the minimum academic credential required when hiring for data analyst positions and skills

100% said they would consider hiring graduates of a Miami Dade College Bachelor of Science program in Data Analytics
100% said their organizations will be making additional investments in Big Data initiatives within the next 5 years

> *"This is a field that will grow across industries in the next five years, great area of focus for a degree program."*
>
> *"Sounds like a great program."*

Appendix B

Student Interest Survey Summary
Bachelor of Science with a Major in Data Analytics

In September 2015, 240 surveys were sent to current technology students. The sample was comprised of students in select databased-related courses Fall 2015: CGS1540 Database Concepts, CTS1437 Microsoft SQL Administration, CTS2433 Microsoft SQL Implementation;

Approximately 130 responses were received (54% response rate). Responses were almost evenly divided between associate in arts majors (36%) and associate in science majors (33%).

75% (n=97) of respondents indicated they would be interested in pursuing a Bachelor's Degree in Data Analytics. Attributes most important to students when deciding which institution to attend in pursuit of a Bachelor's degree included costs (85%), location/ease of access (84%), flexibility in scheduling courses (78% and quality of the institution/program (76%).
Factors that are important in deciding whether to complete a Bachelor Degree program in Data Analytics include: relation to students' career plans (79%), cost of attending (61%), availability of technology (55%), fits around my work and family (54%), and availability of financial aid (54%).

Appendix C

Discipline Meeting Minutes
BS Data Analytics Discipline Committee Meeting - April 7, 2013

Attendees: Djuradj Babic, Jaime Bestard; Elodie Billionniere, Ricky Caraballo, Sergio Cobo, Rodolfo Cruz, Diane King, Kaiyang Liang, Makki, Kia, Nelson Massad, Manuel Perez, Sarah Tuskey, Enrique
Not in attendance: Toribio Matamoros, Felix Lopez

Diane shared completed DACUM report with committee members.
Committee reviewed preliminary course term sequencing, preliminary course numbers.
Committee reviewed the lower division common course prerequisites: CGS1060, COP1334, GEB2XXX Introduction to Business Analytics, and STA2023 *or* QMB2100/2100L.
Committee reviewed first drafts of four courses:
CIS3368 Information Security and Governance. Diane suggested changing the name to Data Security and Governance. Elodie supported retaining the title of Information Security and Governance. Elodie had conferred with Nellie regarding redundancy between this course and CIS3360 Principles of Information Security. There is no redundancy. CIS3368 is managerial and policy and CIS3360 is operational. Kai requested more hands-on application.
Action Item: Kai and Elodie will work together on adding competencies that have more applied task measures.

COP44XX or COP45XX Algorithms. There was discussion regarding are the competencies too theoretical and do they address the algorithms that are most used in data analytics. Kai requested that the competencies focus on the algorithms most frequently used in organizations for data analytics per an email that Kai sent to Sergio. Sergio asked Jaime to work with him on reworking the competencies.

COP3530 Data Structures. Much discussion about whether or not data structures is required to satisfy the program outcomes and the skills identified by the industry DACUM. The committee concluded that this course is not essential for the program and agreed to substitute a second course in Statistics and Probability for Data Analytics (1 and 2) to replace Data Structures since all agreed that data analytics relies most heavily on knowledge of statistics and other programs emphasize statistics. Sergio and Jaime will work with Toribio on developing the two upper division Statistics courses.

GEB3522 Business Operations and Data Applications. The course is a good introduction for Kai's business intelligence, data mining and visualization courses to follow. There will be a prerequisite lower division course as part of the A.S. in Data Analytics that is being developed.

Diane asked the course developers to check the course numbers in the State Course Numbering System (SCNS) http://scns.fldoe.org/scns/public/pb_taxonomy_lst.jsp to determine if the number seems appropriate to their course intent. They do not need to use the same title or prerequisites as SCNS as long as the course intent is relevant.

ACTION: All course revisions and outstanding initial drafts are due by Monday, May 11th.

Associate in Science in Data Analytics – Proposed

PROGRAM CODE: **25072**
EFFECTIVE TERM: **FALL 2016 (2016-1)**
PROGRAM LENGTH: **60 Credits**

GENERAL EDUCATION REQUIREMENTS – 15 CREDITS

COMMUNICATIONS (3.00 credits)

ENC 1101	English Composition 1	(3 credits)

ORAL COMMUNICATIONS (3.00 credits)

SPC 1017	Fundamentals of Speech Communication	(3 credits)

HUMANITIES (3.00 credits)

PHI 2604	Critical Thinking/Ethics	(3 credits)

BEHAVIORAL/SOCIAL SCIENCE (3.00 credits)

CLP 1006	Psychology of Personal Effectiveness	(3 credits)

MATH/SCIENCE (3.00 credits)

MAC 1105	College Algebra	(3 credits)

COMPUTER COMPETENCY

Test type(s) needed:
Computer Competency Test (CCT)
or

CGS 1060C	Introduction to Computer Technology & Applications	(4 Credits)

MAJOR COURSE REQUIREMENTS – 45.00 CREDITS

CGS 1060C	Introduction to Computer Technology & Applications	(4 Credits)
CGS 1540	Database Concepts Design	(4 credits)
COP 1334	Introduction to C++ Programming	(4 credits)
CTS 1437	Microsoft SQL Administration	(4 credits)
CTS 2361	SharePoint Administration	(4 credits)
CTS 2433	Microsoft SQL Implementation	(4 credits)
CTS 2450	Business Intelligence: Analysis Services and Data Mining	(4 credits)
CTS 2451	Business Intelligence: Integration Services & Reporting	(4 credits)
CTS 2463	C# Web Application Development	(4 credits)
GEB 2XXX	Introduction to Business Analytics	(3 credits) ADD NEW COURSE
MAD 1100	Discrete Mathematics for Computer Science	(3 credits)
STA 2023	Statistical Methods	(3 credits)

BS-Analytics Meeting Notes – April 17, 2015

Attending: Elodie Billionnaire, Sergio Cobo, Rodolfo Cruz, Diane King, Kai Liang, Felix Lopez

Program Outcomes

The committee articulated the 3-5 high level program outcomes for both the associates and the baccalaureate programs.

Associate in Science – Business Intelligence/Data Analytics Program Outcomes

01.0 Locate, acquire, and model the data for analysis and output.
02.0 Document specifications for and generate standard or custom reports, that summarize business, financial, or economic data for review by executives, managers, clients, and other stakeholders
03.0 Conduct or coordinate tests to ensure that intelligence is consistent with defined needs.
04.0 Assess current business intelligence or trend data in support of information needs.

Bachelor of Science – Data Science & Analytics Program Outcomes

1. Use SQL and other programming tools to build data warehouses.
2. Apply statistical methods and tools to discover patterns and the relationships in large data sets for decision making.
3. Use SQL to query structured and unstructured data.
4. Use Data Mining methods to answer business questions and make recommendations to decision makers.

Other competencies to keep in mind while developing the BS:

- Apply quality control standards and measures
- Adhere to best practices for change management to ensure data and report integrity and continuity.
- Describe the implications of business intelligence analysis on an organization's strategic marketing, organizational, and business plans.
- Formulate and/or adhere to data governance policies and processes.
- Analyze technology trends to identify markets for future product development or to improve sales of existing products

Lower Division Programming Language Common course Prerequisite. The question was raised: should *either* COP1332 Visual Basic *or* COP1334 C++ be an acceptable lower division common course prerequisite programming language:

Decision: COP1334 (4) or COP1332 or COP2800 are all acceptable common course prerequisites

Course Additions – Statistics? SQL? – At the April 7 meeting, it was proposed and agreed to add a second statistics course. In an email thread, faculty suggested that instead of a second statistics course, the program requires an upper division SQL programming course. The email discussion identified SQL as being introduced in CGS1540. Since CGS1540 will be a common

course prerequisite, can/should CGS1540 competencies be enhanced to include more SQL? Kai noted that CTS2433 and CTS1437 provide foundational knowledge of SQL.

Decision: A second upper level statistics course is *not* required if CTS2433 or CTS2440 is a Common Course Prerequisite.

Common Course Prerequisites: After much discussion about the number and content of the common courses prerequisites, the committee agreed on the following CCPs for a total of 20 or 21 lower division credits before qualifying for entrance to the upper division:

a. **CGS1060 (4 cr.)**
b. **CGS1540 (4 cr.)**
c. **COP1334 or COP1332 or COP2800 (4 cr.)**
d. **STA2023 (3 cr.) or QMB2100/2100L (4 cr.)**
e. **CTS2433 or CTS2440 (4 cr.)**
f. **CTS1437 (4 cr.)**

Kai noted that non-technology students (i.e., business majors) wishing to enter the program require at a minimum CTS1437 and either CTS2433 or CTS2440 to be successful.

Diane told the committee that she met with Julian Chiu on Friday morning. Julian will draft the program sheet/degree audit which may free up some credits for an additional upper division course or courses.

The due date for outstanding course drafts is May 18.

BS- Data Science & Analytics
Discipline Meeting Agenda – June 5, 2015

Attendees: Rodolfo Cruz, Diane King, Kai Liang, Felix Lopez, Nelson Massad, Manny Perez, Enrique Valdes

1. Issues raised by industry DACUM partner regarding sections of the Business Intelligence state framework and sections of the Data Science Analytics DACUM not specific functions for the job duties –
   Committee agreed to leave those benchmarks and duties in our courses to give students a well-rounded context and skill set.
2. Common course prerequisites.

Six courses were proposed at the April 17 meeting. This will require non-AS/BI majors to take up to two terms (23-24 credits), a full year, of prerequisites before they may enter the upper division program. This is not practical.

The committee participants revisited the proposed common course prerequisites and concluded that the following courses are essential:
*STA2023 (3 cr.) or QMB2100/2100L (4 cr.); *CTS1437 (4 cr.); *CTS2433 or CTS2440 (4 cr.) and *GEB2XXX if it will be a prerequisite for the upper division GEB course

They concluded that:

~~CGS1060 (4 cr.) A~~ll EnTec IT students and all business majors who are matriculating to upper division course work must take CGS1060 as part of their required lower division course work, therefore it is not necessary to make it a common course prerequisite. The concepts in

CGS1540 are covered in CTS1437 and CTS2433. Programming skills are not required They will learn applied programming in CTS2433 through SQL skills.

3. Review program sheet draft options. The committee does not support the two track option. Data structures does not belong in the program; it is theoretical for computer science and not practical or applied but the second statistics course is critical.

UPPER DIVISION REQUIREMENTS (39.00 credits)

☐ CAP46XX Data Mining (4 credits)

☐ CAP4737 Data Visualization (4 credits)

☐ CIS 4891 Data Science and Analytics Capstone (4 credits)

☐ CIS 3368 - Data Security & Governance (4 credits)

☐ COP 45XX Data Mining ~~and Predictive Analytics~~ Algorithms (4 credits)

==========

☐ CTS3452 Business Intelligence (4 credits)

☐ ~~COP3530 Data Structures (4 credits)~~

☐ CIS78XX - Big Data (4 credits)

☐ GEB3522 Business Operations and Data Applications (3 credits)

☐ STA3XXX – Statistics and Probability for Data Analytics 1 (4 credits)

☐ STA4XXX - Statistics and Probability for Data Analytics 2 (4 credits)

4. Course titles: The following are proposed
    - **a.** Algorithms: Data Mining Algorithms
    - b. Statistics course title: Statistical Methods for Data Analytics 1 and 2
    - c. Data Security & Governance
5. Diane has asked all course developers to identify the prerequisites for their courses and recommended term sequencing, bearing in mind that the program must be completed within 4 -5 terms.
6. Review courses that have been submitted for feedback. At the first meeting in the fall, the committee will review and vote on all of the courses. In the meantime, developers will review the drafts that have already been submitted (sent as attachments to the most recent June 5th meeting notice) to determine if the contents are consistent with their course(s) and vice versa.
7. Establish due date for outstanding courses: All outstanding drafts are due no later than June 20th. The committee will reconvene the second or third week of September to review and vote on all drafts.

Appendix D Pathway to BS in Data Analytics/Stackable Credentials

PROGRAM TYPE: COLLEGE CREDIT CERTIFICATE
PROGRAM TITLE: BUSINESS INTELLIGENCE PROFESSIONAL EFFECTIVE TERM: Fall 2016 (2016-1)
PROGRAM LENGTH: 20 Credits

CGS 1060C	Introduction to Computer Technology & Applications	(4 Credits)
CTS 1437	Microsoft SQL Administration	(4 credits)
CTS 2450	Business Intelligence: Analysis Services and Data Mining	(4 credits)
CTS 2451	Business Intelligence: Integration Services & Reporting	(4 credits)
CTS 2433	Microsoft SQL Implementation	(4 credits)

PROGRAM TYPE: ASSOCIATE IN SCIENCE DEGREE
PROGRAM TITLE: BUSINESS INTELLIGENCE
PROGRAM CODE: 25072
EFFECTIVE TERM: FALL 2016 (2016-1)
PROGRAM LENGTH: 60 Credits

GENERAL EDUCATION REQUIREMENTS – 15 CREDITS

COMMUNICATIONS (3.00 credits)

ENC 1101	English Composition 1	(3 credits)

ORAL COMMUNICATIONS (3.00 credits)

SPC 1017	Fundamentals of Speech Communication	(3 credits)

HUMANITIES (3.00 credits)

PHI 2604	Critical Thinking/Ethics	(3 credits)

BEHAVIORAL/SOCIAL SCIENCE (3.00 credits)

CLP 1006	Psychology of Personal Effectiveness	(3 credits)

MATH/SCIENCE (3.00 credits)

MAC 1105	College Algebra	(3 credits)

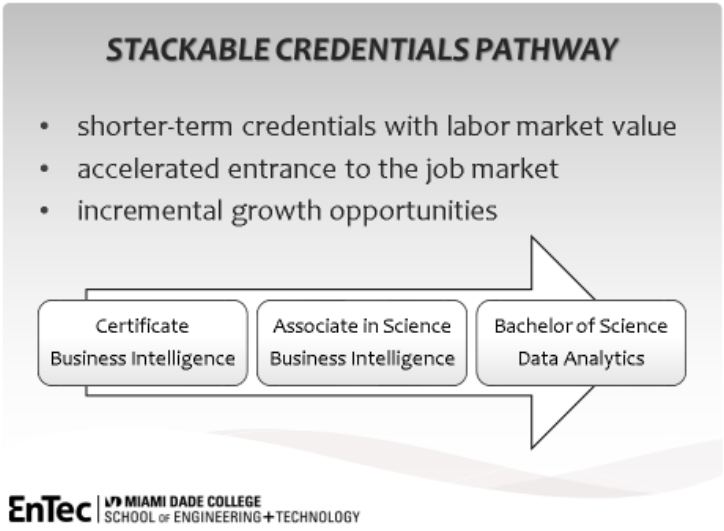
COMPUTER COMPETENCY

Test type(s) needed:
Computer Competency Test (CCT)
or

CGS 1060C	Introduction to Computer Technology & Applications	(4 Credits)

MAJOR COURSE REQUIREMENTS – 45.00 CREDITS

CGS 1060C	Introduction to Computer Technology & Applications	(4 Credits)
CGS 1540	Database Concepts Design	(4 credits)
COP 1334	Introduction to C++ Programming	(4 credits)
CTS 1437	Microsoft SQL Administration	(4 credits)
CTS 2361	SharePoint Administration	(4 credits)
CTS 2433	Microsoft SQL Implementation	(4 credits)
CTS 2450	Business Intelligence: Analysis Services and Data Mining	(4 credits)
CTS 2451	Business Intelligence: Integration Services & Reporting	(4 credits)
CTS 2463	C# Web Application Development	(4 credits)
GEB 2100	Introduction to Business Analytics	(3 credits)
MAD 1100	Discrete Mathematics for Computer Science	(3 credits)
STA 2023	Statistical Methods	(3 credits)



Appendix E

Letters of Support

netTALK
We connect you.

1080 NW 163rd Drive
Miami, FL 33169
305-621-1200

9/10/2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

On behalf of NET TALK.COM INC. ("netTALK"), I am in full support of the proposed Baccalaureate degree in Data Analytics at Miami Dade College.

During my tenure as Chief Operating Officer, netTALK has invested in quality training and education for our workforce. In that regard, it is my understanding that this four-year degree in Data Analytics is designed to better prepare local professionals across virtually any industry sector with the knowledge they need to contribute to Miami Dade County's continued economic growth and competitiveness. Miami Dade College has traditionally been instrumental in preparing the local workforce with the knowledge and skills so vital to succeed in the workplace. Having the proposed four-year degree from Miami Dade College will increase the number of local candidates who are able to provide analyst services in our community.

I thank Miami Dade College for its continued efforts to improve the quality of our local workforce.

Best regards,

Nicholas Kyriakides & the Kyriakides family

NEXTera® ENERGY RESOURCES

September 14, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón,

I have recently been informed of a Miami Dade College initiative that seeks to implement a four-year baccalaureate degree in Data Analytics.

As you are aware, NextEra Energy Resources LLC and Miami Dade College have an established partnership built on many years of collaboration to cultivate our future leaders. We have successfully hired many MDC graduates and are looking forward to an expanded workforce pool of data analyst professionals.

I am delighted that the College will be submitting its proposal for approval from the State Board of Education to offer the Baccalaureate degree in Data Analytics.

I commend you and your colleagues for having the vision to proceed with this critical degree and I support its implementation.

Sincerely,

Michael Duquette Fowler
VP Information Management

NextEra Energy Resources, LLC
700 Universe Boulevard, Juno Beach, FL 33408

Check Point
SOFTWARE TECHNOLOGIES LTD.

WE SECURE THE FUTURE

Oct 7, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

Let me be the first to congratulate Miami Dade College on its efforts to develop a four-year degree in Data Analytics.

As you are well aware, there are not enough qualified professionals in this area to meet the present and growing needs of South Florida employers. With a larger supply of data science professionals, it will be easier for the local business to remain competitive and ensure the future growth across multiple industries, particularly in cybersecurity, health care, wellness, and financial services.

On behalf of Check Point, I want to extend my support to the College on this effort. Thank you for providing accessible, affordable, quality education in the area of Big Data.

Sincerely,

Brent Bartlome
Regional Director, Check Point Software Technologies

BHEF BUSINESS-HIGHER EDUCATION FORUM
Creating Solutions. Inspiring Action.

2025 M Street, NW, Suite 800
Washington, D.C. 20036

phone: (202) 367-1189
fax: (202) 367-2269
www.bhef.com

October 5, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

Thank you for sharing with me Miami Dade College's proposal to implement a Baccalaureate Degree in Data Analytics.

I recognize the need within South Florida to expand this expertise, which can only support the Business-Higher Education Forum's efforts to align undergraduate education with business needs to prepare college students for success in high-performing careers. Your program will aid us greatly by providing a well-prepared pipeline of professionals with deep analytical skills.

I wholeheartedly support the College's outstanding efforts to enhance the education and training credentials of Data Analyst professionals.

Sincerely,

Brian K. Fitzgerald, Ed.D.
Chief Executive Officer

Florida East Coast
INDUSTRIES

Sept. 11, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

I was pleased to learn about a proposal under development by Miami Dade College that would expand its offerings by adding a bachelor's degree in the area of Data.

I believe this proposal has an excellent support within professional circles in our community. As Florida East Coast Industries hires data analysts as needs arise, this degree will improve the availability of local candidates for these positions and decrease our costs by eliminating relocation expenses.

I can assure you that we are definitely in favor of initiatives which offer advanced education to our computing professionals in the emerging fields. Therefore, I support MDC's efforts to establish a Baccalaureate of Science in Data Analytics.

On behalf of Florida East Coast Industries, I would like to express our appreciation to you and your staff for the diligent efforts being put forth to address the educational needs of our workforce.

Sincerely,

Alfred Lurigados, P.E.
Director, Corporate Development
Florida East Coast Industries

2855 Le Jeune Road | 4th Floor | Coral Gables, FL 33134 | T: 305.520.2300 | www.feci.com

Miami-Dade County Public Schools
giving our students the world

Superintendent of Schools
Alberto M. Carvalho

Miami-Dade County School Board
Perla Tabares Hantman, Chair
Dr. Lawrence S. Feldman, Vice Chair
Dr. Dorothy Bendross-Mindingall
Susie V. Castillo
Dr. Wilbert "Tee" Holloway
Dr. Martin Karp
Lubby Navarro
Raquel A. Regalado
Dr. Marta Pérez Wurtz

September 22, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

Thank you for sharing with me the Miami Dade College's proposal to implement a Baccalaureate Degree in Data Analytics.

I recognize the need within South Florida to expand this expertise, which can only support Miami-Dade County Public Schools efforts of using data analytics to help improve student achievement. Your program will aid us greatly by providing a well-prepared pipeline of professionals with deep analytical skills.

I wholeheartedly support the College's outstanding efforts to enhance the education and training credentials of Data Analyst professionals in our community.

Jorge Fernández
Executive Director
Client & Business Services
Information Technology Services

Information Technology Services • 13135 S.W. 26 Street. • Miami, FL 33175
305-995-3885 • www.dadeschools.net

MIAMI-DADE COUNTY
Carlos A. Gimenez, Mayor

Information Technology
5680 SW 87th Avenue
Miami, Florida 33173
T 305-596-8320

miamidade.gov

September 14th, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

I am pleased to express my full support for Miami Dade College's proposed Baccalaureate degree in Data Analytics.

As an Assistant Director, I fully understand the value of an advanced degree in this field. A four-year degree is essential to maintaining a high level of competence and professionalism to data analyst professionals in our community.

I confirm our support of this endeavor.

On behalf of Miami Dade County, I would like to congratulate you on your vision and leadership. Please feel free to seek my assistance for this and any future endeavor.

Respectfully submitted,

Margaret Brisbane

Margaret Brisbane
Assistant Director
Information Technology Department

Delivering Excellence Every Day

ORACLE

500 Northpark
1100 Abernathy Road
Atlanta, GA 30328

October 13, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132-2297

Dear Dr. Padrón:

I am pleased to pledge our support via this letter to the College for the proposed Baccalaureate degree program in Data Analytics.

The information technology industry has placed great emphasis on quality and precision. As the Vice-president of Education & Research of Oracle Corporation, I can attest to the efforts we have placed into better development of information systems. Highly analytically-skilled professionals are essential to our mission of providing high quality software and hardware across the spectrum of infrastructure, platform, and applications.

As this four–year degree program will raise the level of preparation of new and existing Data Analyst personnel, it will have a very positive effect on our industry. MDC has always been very instrumental in responding to our educational needs in the area of information technology and this program continues that tradition.

Please know that Oracle Corporation is in full support of the proposed degree offering, and we applaud Miami Dade College for always being at the vanguard when it comes to workforce issues.

Very truly yours,

Cole Clark

Cole Clark
Global Vice President
Oracle Education and Research Industry Business Unit

8 October 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132-2297

Dr. Padrón,

Please find this letter in support of the proposed Miami Dade College's baccalaureate degree in Data Analytics.

The need for analytical talent in the marketplace greatly outstrips the current supply in all industry verticals. We have found the analytics programs with which we collaborate are most successful when they team with industry to teach applied skills. We are encouraged by your program being offered at the baccalaureate level so you are supplying the talent pipeline in a much needed way.

In supporting the development of your program, SAS provides at no cost, teaching materials, curriculum consulting and summer training workshops for professors. Each year we host a Data Science and Analytics Symposium as a means for professors to exchange ideas and best practices with their peers. Miami Dade will be extended an invitation to attend. Once you have students preparing to graduate, we are happy to make introductions for your placement staff with the SAS customers in your area seeking SAS skilled analytical talent.

SAS heartily supports the development of your proposed Data Analytics program. We are happy to answer any questions relating to how SAS is willing and able to support your curriculum development and implementation efforts.

Sincerely,

Emily Baranello

Emily Baranello
Senior Director
SAS Education Practice

emily.baranello@sas.com

COMMUNITY BANK
OF FLORIDA
MEMBER FDIC

September 15,2015

Dr. Eduardo J. Padr6n
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132-2297

Dear Dr. Padr6n:

On behalf of Community Bank of Florida, I am in full support of the proposed Baccalaureate Degree in Data Analytics at Miami Dade College.

During my tenure as VP and Chief Information Officer, Community Bank of Florida has invested in quality training and education for our workforce. In that regard, it is my understanding that this four-year degree in Data Analytics is designed to better prepare professionals with the knowledge they need to contribute to Miami Dade County's continued economic growth. Miami Dade College has traditionally been instrumental in preparing the local workforce with the knowledge and skills so vital to succeed in the workplace. Having the proposed four-year degree from Miami Dade College will increase the number of local candidates who are data savvy, providing financial services sector with a much needed Big Data support.

I thank Miami Dade College for its continued efforts to improve the quality of our local workforce.

Sincerely,

VP and CIO
Community Bank of Florida

Post Office Box 900400, Homestead, Florida 33090-0400
28801 S.W. 157th Avenue, Homestead, FL 33033 • 305-245-2211 • www.commmunitybankfl.com

atcginc
Advanced Technologies Consulting Group, Inc.

October 12, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132-2297

Dear Dr. Padrón:

I am pleased to pledge our support via this letter to the College for the proposed Baccalaureate degree program in Data Analytics.
The healthcare IT industry has placed great emphasis on quality and precision. As the president of Advanced Technologies Consulting Group I can attest to the efforts we have placed into better development of information systems. Highly analytically-skilled professionals are essential to our mission of providing our healthcare and pharmaceutical clients the outcomes they have come to expect from our firm.
As this four–year degree program will raise the level of preparation of new and existing Data Analyst personnel, it will have a very positive effect on our business. MDC has always been very instrumental in responding to our training needs in the area of information technology and this program continues that tradition.
Please know that Shawn is in full support of the proposed degree offering, and we applaud Miami Dade College for always being at the vanguard when it comes to workforce issues.

Very truly yours,

Shawn M. Williams, President

1955 Tyler Street, Hollywood, Florida 33020 o. 954.719.4051 f. 954.773.9989

MBAF
MORRISON BROWN ARGIZ & FARRA, LLC
CERTIFIED PUBLIC ACCOUNTANTS AND ADVISORS

September 18, 2015

Dear Dr. Padrón:

As Director of Marketing of Morrison, Brown, Argiz & Farra, LLC (MBAF), I'd like to express my full support for Miami Dade College's baccalaureate degree in Data Analytics.

There is an evident need to expand workforce development, training, and education to better support the growing needs of South Florida businesses. Local companies will absolutely benefit from this degree across virtually all industry sectors – data analytics is a sought-after skill.

I fully support this endeavor and look forward to the rewards that will come from the promising computing professionals trained at your facilities.

Respectfully submitted,

Wolfgang H. Pinther, MBA
Director of Marketing
MBAF

An Independent Member of Baker Tilly International

MIAMI 1450 Brickell Avenue, 18th Floor, Miami FL 33131 | T 305 373 5500 F 305 373 0056 | www.mbafcpa.com

Compuquip
TECHNOLOGIES

September 1, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

It is with great interest and enthusiasm that I provide a letter of support to your college for the proposed Baccalaureate Degree offering in Data Analytics.

As Chairman for Compuquip Technologies, I can verify that data analysts are a vital part of our team. Ensuring that we recruit prospective and qualified professionals that are well-trained and knowledgeable about predictive methods, and moreover, committed to our community is absolutely essential.
By offering prospective and current computing personnel the opportunity to enhance their education through the proposed degree, the college will greatly contribute to the professional development of countless workers. Miami Dade College is a key provider of low cost, high quality education in Miami-Dade County and we are delighted to support this new effort.

I look forward to working with you.

Sincerely,

Alberto Dosal
Chairman
Compuquip Technologies

Compuquip
TECHNOLOGIES
2894 NW 79 Avenue
Doral, Florida 33122
www.compuquip.com
(office) 786.641.5437
(fax) 786.524.0677

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elementsfitness
for Women

October 6, 2015

Dr. Eduardo J. Padrón
President
Miami Dade College
300 N.E. Second Avenue
Miami, Florida 33132

Dear Dr. Padrón:

I am pleased to express my full support for Miami Dade College's proposed Baccalaureate Degree in Data Analytics.

As a Chief Executive Officer, I fully understand the value of an advanced degree in this field. A four-year degree is essential to maintaining a high level of competence and professionalism to data analyst professionals in our community.

I confirm our support of this endeavor.

On behalf of elements® group, I would like to congratulate you on your vision and leadership. Please feel free to seek my assistance for this and any future endeavor.

Respectfully submitted,

Christopher Palumbo
CEO, elements® group

ELEMENTS FOR WOMEN® USPTO No. 76588645
ELEMENTS DIET AND FITNESS® USPTO No. 78611901

elements group • 404 Washington Avenue • Penthouse Level • Miami Beach, FL 33139 (305) 535-1525

Appendix F

DISTRICT BOARD OF TRUSTEES

SUBJECT: **AUTHORIZATION TO SUBMIT A LETTER OF INTENT TO THE COMMISSIONER OF THE FLORIDA DEPARTMENT OF EDUCATION TO OFFER A BACHELOR OF SCIENCE (BS) DEGREE IN DATA ANALYTICS PURSUANT TO SECTION 1007.33, FLORIDA STATUTES, SITE-DETERMINED BACCALAUREATE DEGREE ACCESS**

RATIONALE: The Miami Dade College School of Engineering and Technology requests approval to submit a proposal to the Florida Department of Education, which will authorize Miami Dade College to offer a Bachelor of Science (BS) degree program in Data Analytics. The program is designed to train and supply a workforce of skilled graduates in data manipulation and analysis across a spectrum of industries. This program provides articulation opportunities for students graduating with associate in science degrees in information technology, business and mathematics disciplines as well as for graduates with associate in arts degrees. Through the cross-disciplinary curriculum, students will learn to clean, organize, analyze, and interpret unstructured data, to derive knowledge and communicate discoveries using sophisticated visualization techniques. Students will demonstrate competence with fundamental algorithmic approaches to analyzing large data sets.

Data Analytics is an emerging 21st century technology, related to the field of data science, and connected to the explosion of "Big Data." The Bachelor of Science (BS) with a major in Data Analytics will address the growing demand for skilled professionals to identify, analyze, interpret and present the volumes of data that are available to organizations in the Information Age.

The interdisciplinary program is comprised of content from three academic areas - Computer Science, Mathematics, and Business. As a result of program completion, students will acquire skills in statistics and probability, predictive analytics algorithms, data mining, data visualization, data security and governance, big data and business intelligence. A capstone course will provide students with the opportunity to synthesize their learning by developing solutions for real-world problems in data mining and analytics, to document their work in scholarly reports, and to present their methodology and results to faculty and peers.

According to the Florida Department of Economic Opportunity Florida Jobs by Occupation, the demand for Computer Systems Analysts is growing at the rate of 14.4% in Workforce Region 23, Computer and Information Systems Managers is growing at the rate of 11.2%, Computer Programmers 4.5%, Software Applications Developers 16.8% and Database Administrators at the rate of 20%. Computer Systems Analysts and Software Applications Developers are categorized as "Bright Outlook" occupations. There is a total of 2,198 projected job openings in Workforce Region 23 at an average salary of $100,078.

RECOMMENDATION: Miami Dade College is authorized to submit a letter of intent to offer a Bachelor of Science (BS) Degree Science in Data Analytics to the Commissioner of the Florida Department of Education.

MIAMI DADE COLLEGE
DISTRICT BOARD OF TRUSTEES REGULAR MEETING

JAMES K. BATTEN COMMUNITY ROOM ROOM 2106,
WOLFSON CAMPUS NOVEMBER 17, 2015
8:00 A.M.

MINUTES

PRESENT

Members of the Board

Ms. Helen Aguirre Ferré, Chairman
Mr. Armando J. Bucelo Jr., Esq., Vice-Chairman Ms. Marili L. Cancio, Esq.
Mr. Daniel Diaz Leyva, Esq.
Mr. Bernie Navarro
Mr. Armando J. Olivera

Administration

Dr. Eduardo J. Padrón, President
Dr. Rolando Montoya, Provost for Operations
Dr. Lenore Rodicio, Provost for Academic & Student Affairs Dr. Julie Alexander, Vice Provost, Academic Affairs
Dr. Joanne Bashford, President, InterAmerican Campus Ms. Iliana Castillo-Frick, Vice Provost, Human Resources
Dr. Wendy Chang, Vice Provost, Information Technology & CIO Mr. Mark Cole, Executive Director, MDC Foundation
Dr. Archie Cubarrubia, Vice Provost, Institutional Effectiveness Ms. Carmen Dominguez, Legal Counsel
Dr. Armando Ferrer, President, Medical Campus Dr. Malou Harrison, President, North Campus Dr. Jeffrey Hodgson, Provost, NWSA
Dr. Jeanne F. Jacobs, President, Homestead Campus

Mr. E.H. Levering, Senior Vice Provost, Business Affairs & CFO Mr. James Louis, Student Government Association, Wolfson Campus Dr. Kathy Maalouf, Vice Provost for Student Services
Mr. Roman Martinez, Group Director, Purchasing Dr. Beverly Moore-Garcia, President, Kendall Campus
Ms. Neyda Otero, Interim Vice Provost, Facilities Ms. Yesenia Sanabria, Support Staff Council, Hialeah Campus Mrs. Tauri Gittings, College-wide CASSC, InterAmerican Campus Dr. José A. Vicente, President, Wolfson Campus

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The mission of Miami Dade College is to change lives through the opportunity of education.
As democracy's college, MDC provides high quality teaching and learning experiences that are accessible and affordable to meet the needs of our diverse students and prepare them to be responsible global citizens and successful
lifelong learners. The College embraces its responsibility to serve as an economic, cultural and civic beacon in our community.

The meeting was called to order by Chair Helen Aguirre Ferré at 8:15 a.m., followed by a moment of silent reflection and the Pledge of Allegiance.

APPROVAL OF THE MINUTES OF THE REGULAR MEETING – OCTOBER 20, 2015

Chair Aguirre Ferré asked if there were any questions or issues regarding the Minutes. A motion to accept the Minutes was voiced by Trustee Olivera and seconded by Trustee Navarro. It passed by unanimous declaration.

INTRODUCTION

Dr. Eduardo Padrón requested that the Provost for Academic & Student Affairs Dr. Lenore Rodicio introduce Ms. Cheryl A. Baldwin**,** the new Executive Director of Workforce Education and Partnerships. Dr. Rodicio spoke about Ms. Baldwin's 15-plus years of experience in higher education and training, which includes service at Long Island University; the Health Research and Educational Trust in Princeton; and New York University. Dr. Rodicio noted that Ms. Baldwin has taught as an adjunct instructor at New York University, Berkeley College, Bronx Community College, and Fairleigh Dickinson University and holds a Master's degree from Columbia University in New York and is currently working toward her doctorate.

ACTION AGENDA

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1. ACTION AGENDA

    a. Authorization to Negotiate Contract for Architectural and Engineering Services for Homestead Campus, Parking Lot, RFQ-2016-6-14A.

Chair Aguirre Ferré reviewed the procedures to be followed for the presentations to the Board by the finalists selected for this project. She asked for confirmation that a representative from each firm was present. Each of the three architecture firms (Chen Moore and Associates, Miller Legg and Associates, Inc., and Rodriguez & Quiroga Architects) were given 10 minutes to present. Provost Montoya outlined the voting protocol, which required that each Trustee record his or her ranking for each firm all on one ballot, with "1" being the first choice, "2" the second and "3" the third. The firm with the lowest total number of points would receive the highest ranking. Second- and third-place rankings were made in the event that the Administration is unable to negotiate a favorable contract with the first-place ranked firm.

Each firm provided a brief history, list of clients and plans for the remodeling and renovation of the Homestead Campus, Parking Lot. The final vote was as follows:

First Place:	***Rodriguez & Quiroga Architects Chartered***
Second Place:	***Chen Moore and Associates***
Third Place:	***Miller Legg and Associates, Inc.***

The Chair thanked the three presenting firms and then moved on to the next item on the Action Agenda.

b. Annual Certification that Miami Dade College Foundation, Inc. Operates in a Manner Consistent with the Goals of Miami Dade College and in the Best Interest of the State.

Dr. Padrón described this certification as an annual exercise that the Miami Dade College Foundation is required to follow. He noted that the Foundation is a direct support organization of the College that provides significant assistance to students and College programs. Much pride is to be taken in the pro-bono service that the Board members provides to the institution. Dr. Padrón expressed his pleasure in working with the Foundation Board members to further the best interests of the College.

A motion to open the item for discussion was made by Trustee Diaz Leyva and seconded by Trustee Olivera.

Trustee Olivera asked for confirmation that there are no significant deficiencies found in the operations of the Foundation. Sr. Vice Provost and CFO E.H. Levering replied that there were no significant findings and that the minor items noted by the auditors were principally related to segregation of duties of the Foundation staff. Mr. Levering commented that the Foundation staff is very small which required staff to assume additional duties. He noted that that a review of the operations of the Foundation had been conducted and that information gathered by the auditors would be shared with the trustees shortly.

Chair Aguirre Ferré commented that she is pleased to serve as the Board of Trustees' representative to the Foundation and she shared her amazement of the extraordinary amount of work and due diligence that the Foundation Board members provide to the organization. She stated that she believes that they really do give of their time and take this responsibility extremely seriously and that there is great new leadership leading the Foundation. This independent audit confirms the good work that is being done.

The Item was moved by Trustee Diaz Leyva and seconded by Trustee Olivera. It passed by unanimous declaration.

c. Approval of Miami Dade College Foundation, Inc. Financial Statements – Fiscal Years Ended 2015 and 2014.

After introducing the item, Dr. Padrón asked for the minutes to reflect that the trustees have all received a copy of the audit. A discussion on the item was held by the Board and Trustee Olivera asked that the record reflect the fact that the Trustees rely exclusively on the outside auditors to review the financial statements; that the Foundation Board has its own financial experts serving on that Board and that Trustees do not meet with the auditors or review any of the information except when they review the final statements as presented by the auditors.

Mr. Levering stated that the outside auditor Kaufman & Rossin did render an unqualified opinion with no issues on the audit. He stated that there are three items he is required to advise the Trustees prior to this item being approved. 1.) The support the College provides to the Foundation is $111,000 for the most-recent fiscal year, which is a combination of subsidized rent and salaries for those who provide services to the Foundation. 2.) Net assets of the Foundation grew to $131 million from $125 million in the most-recent fiscal year; mostly a result from investment income. 3.) The Foundation has no long-term debt.

The Item was moved by Trustee Olivera and seconded by Trustee Cancio. It passed by unanimous declaration.

d. Authorization to Submit a Letter of Intent to the Commissioner of the Florida Department of Education to Offer a Bachelor of Science (BS) Degree in Data Analytics Pursuant to Section 1007.33, Florida Statutes, Site-Determined Baccalaureate Degree Access.

Dr. Padrón requested that Dr. Rodicio and Wolfson Campus President José Vicente introduce this item. Dr. Rodicio stated that this baccalaureate degree is the culmination of a lot of work with internal and external partners. She stated that the Business Higher Education Forum was particularly helpful in crafting what this curriculum will look like so that students will be attractive to local and national industries in data analytics. She noted that this training is critical to analyzing information now that data are being produced at such a monumental rate. She commented that local universities are very supportive. In particular, she recalled receiving a phone call from the Vice Provost for Academics Affairs at Florida International University, who lauded MDC for bringing forward this baccalaureate program and asked to collaborate with the College to create a seamless articulation into FIU's Master's program. She shared her pride in the fact that MDC is meeting the needs of the workforce and is working with its higher education partners in this emerging area. She responded to a question by a trustee noting that FIU offers a similar baccalaureate, but not in this particular field specifically. FIU has an Information Technology degree.

Dr. Vicente stated that MDC will be the first institution of higher education in Florida with this Baccalaureate Degree. No other institution, public or private offers anything like it. This is a tremendous opportunity because of the kinds of salaries this degree commands and the employment outlook nationally, within Florida, and locally. MDC is a pioneer in terms of offering this type of program. He then introduced Diana Bien Aime, Wolfson Campus's Interim Dean of Academic Affairs, and Dr. Djuradj Babic, Director of the School Engineering and Technology, to share the process that has been observed in researching the need for this new degree program.

Ms. Bien Aime stated that this is an inter-disciplinary curriculum in which the administration will continue to work with faculty, the office of Academic Programs and the Director of Curriculum Development to ensure quality in terms of the program sheet, the course competencies, and the actual courses. She then introduced Dr. Babic, who presented an overview of the Bachelor of Science in Data Analytics program.

Dr. Babic stated that the Bachelor of Science in Data Analytics program is designed to train and supply a workforce of skilled graduates in data manipulation and analysis across a spectrum of industries. Through the cross-disciplinary curriculum, students will learn to discover patterns and the relationships in large data sets, resolve business questions and make data-driven decisions, and effectively communicate informed tactical and strategic business objectives. He then presented a video of what is Big Data and described the following main points:

A.) Workforce Potential Estimates.
B.) Local Workforce Projections for 2014-2022. C.) Program
Learning Outcomes.
D.) Curriculum (Lower Division Prerequisites and Upper Division Content). E.) Industry
Partnerships.

He concluded his presentation by noting that upon graduation, MDC students will be able to discover patterns and relationships in large data sets applying statistical tools, resolve business questions and make recommendations to data mining methods, and communicate tactical and strategic objectives utilizing data visualization techniques.

A discussion was held among the Board members on the item. Trustees asked about support from industry partners. Staff responded that conversations were initiated through the Business Higher Education Forum with Nextera Energy and Siemens Energy to develop a data analytics/data science program to fit their needs. Soon after, it was realized that assistance was needed from the powerhouses in this domain – Accenture, SAS and Oracle who have also joined the initiative. Finally, it was necessary to address any sector within the local community, not just the energy sector, so talks were initiated with Miami Children's Hospital, Miami-Dade

County Public Schools, and Miami-Dade County (the three institutions that have large and healthy data analytics departments).

To further support this item, Dr. Babic added that the last Bachelor degree for the School of Engineering and Technology presented to the Board was for Information Systems Technology. This Fall, beginning its second year, 180 students were enrolled in the program; 35 will graduate in the Spring and an additional 60 students will graduate in the Summer. This program doubled the number of student estimates that were initially submitted in MDC's state application. The school is committed to meeting the local workforce needs in emerging technologies and a data analytics program will not be any different.

A question was asked about the cost of the program to the student.

Dr. Padrón stated that this program will cost about $3,500/year for a full-time student. The Pell Grant more than covers the cost. He recently received a letter from the Governor of Florida emphasizing the need to develop these types of programs and the importance of providing a trained workforce to attract the industries that really matter to Florida. This program will be serving two of the largest businesses in Florida – Siemens & NextEra-FPL.

Trustee Leyva wanted to know the next steps in this process and if there is anything that can be done to expedite the process. Dr. Rodicio satisfactorily answered his questions.

The Item was moved by Trustee Diaz Leyva and seconded by Trustee Olivera. It passed by unanimous declaration.

e. Approval of the First Quarter Financial Report for the Period Ended September 30, 2015.

Dr. Padrón asked Mr. Levering to provide a brief summary, who stated that revenue was on plan. In terms of students' fees, MDC's credit enrollment is down
3.6 percent and non-credit is a little stronger than that. The net effect of that is that enrollment is flat within the College's conservative plan. Investment income was double than what is the plan. Money that had been frozen since 2008 as a result of the market meltdown has been released to the College and resulted in a significant one-time long-term gain to the College.

On the expense side, payroll and benefits were up; close to $600,000. MDC was over budget mostly due to a one-time entry that is related to the GASB, non-cash FRS liability, which was mentioned during the October Board Meeting while discussing year-end financials. Operating expenses were below budget by $3.3 million. Overall financial statements were better than budget.

A somewhat negative note is how the endowment performed tracking the market, which was down precipitously through the end of October and about 75 percent of that has since been recaptured.

The Item was moved by Trustee Diaz Leyva and seconded by Trustee Olivera. It passed by unanimous declaration.

1. NEW WORLD SCHOOL OF THE ARTS

    a. Personnel Actions.

The Item was moved by Trustee Olivera and seconded by Trustee Navarro. It passed by unanimous declaration.

    b. Report of Contracts.

CONSENT AGENDA

All the other items in the Consent Agenda were moved by Trustee Olivera and seconded by Trustee Diaz Leyva. They passed by unanimous declaration.

1. ITEMS FOR RATIFICATION

    a. Ratification and Approval of Specific Remodeling/Renovation and New Construction Projects being Performed at the College under Agreements with Construction Management Firms.

    b. Personnel Action Recommendations.

2. GRANTS

    a. Authorization to Accept Funds Awarded from ConnectFamilias, to Support InterAmerican Campus, Caring for Kids Child Safety Fair (InterAmerican Campus, CPN C15-0143).

    b. Authorization to Accept Funds Awarded from CareerSource South Florida, to Support Kendall Campus, School of Business, Future Bankers' Training Program, Implemented at Wolfson Campus (Kendall Campus, CPN C15-0144).

c. Authorization to Accept Funds Awarded from the American Federation of Teachers, to Support North Campus and Wolfson Campus, School of Entertainment and Design Technology and School of Engineering and Technology, on Behalf of the United Faculty of Miami Dade College (North Campus, CPN C15-0146).

d. Authorization to Accept Funds, if Awarded, from SingleStop USA, SNAP Application Accelerator Project, to Support North Campus, SingleStop at Miami Dade College, Implemented at Kendall, North, and Wolfson Campuses (North Campus, CPN C15-0164).

e. Authorization to Accept Funds, if Awarded, from the Institute of International Education, through the Council for International Exchange of Scholars, Fulbright Scholar-In-Residence Program, to Support Wolfson Campus, Law Center, Paralegal Studies Department (Wolfson Campus, CPN G15-0056) .

f. Authorization to Accept Funds, if Awarded, from the National Science Foundation, Scholarships in Science, Technology, Engineering, and Mathematics, to Support North Campus, School of Science, BioPath, Implemented at North and Kendall Campuses (North Campus, CPN G15-0069) .

g. Authorization to Accept Funds, if Awarded, from the Health Foundation of South Florida, Responsive Grants Program, to Support Kendall Campus, School of Continuing Education and Professional Development, Children's Health and Movement Project (CHAMP), Implemented at InterAmerican Campus (Kendall Campus, CPN G15-0091).

h. Authorization to Accept Funds, if Awarded, from the American Council on Education/Fidelity Investments Award for Institutional Transformation, to Support District, Office of Academic and Student Affairs (District, CPN G15-0121).

i. Authorization to Accept Funds, if Awarded, from Citizens Interested in Arts, Inc. to Support District, MDCulture, MDC Live Arts, Black Girl: Linguistic Play (District, CPN G15-0123).

j. Authorization to Accept Funds, if Awarded, from the Miami-Dade County, Department of Cultural Affairs, Summer Arts and Science Camps for Kids Program, to Support District, MDCulture, Prometeo Theatre, Prometeitos Summer Theatre Camp (District, CPN G15-0130).

k. Authorization to Accept Funds, if Awarded, from the National Center for Science and Civic Engagement, Science Education for New Civic Engagements and Responsibilities, to Support Wolfson Campus, Earth Ethics Institute (Wolfson Campus, CPN G15-0131).

l. Authorization to Accept Funds from the American Sociological Association, Sydney S. Spivack Program in Applied Social Research and Social Policy, Community Action Research Initiative Grant, to Support North Campus, Department of Social Science, an Evaluation of Casa Chiapas Tampa's Indigenous Maya Immigration Conference Series (North Campus, CPN G15-0142) .

3. PURCHASING

a. Report of Bid Awards/Purchase Orders/Agreements for Services Approved by College Provost/President as per College Policy VI-2.

b. Minority and Female-Owned Business Utilization Report.

4. CAPITAL OUTLAY

a. Authorization to Negotiate a Contract for Construction Management at Risk Services for the Homestead Campus, Parking Lot, RFQ-2016-6-14B.

b. Plant Property Surveys.

REPORTS AND INFORMATIONAL ITEMS

a. Report of Contracts.

b. Report of Various Leaves.

c. Grants Production Report.

There being no further business, Chairman Aguirre Ferré adjourned the meeting at 10:05 a.m.

Helen Aguirre Ferré

Chairman

Secretary

Appendix G
Board of Trustees Approval

DISTRICT BOARD OF TRUSTEES

Meeting of April 19, 2016 Action Agenda, Item

SUBJECT: **AUTHORIZATION TO SUBMIT A PROPOSAL TO THE CHANCELLOR OF THE FLORIDA COLLEGE SYSTEM TO OFFER A BACHELOR OF SCIENCE (BS) DEGREE IN DATA ANALYTICS PURSUANT TO SECTION 1007.33, FLORIDA STATUTES, SITE-DETERMINED BACCALAUREATE DEGREE ACCESS**

AND

AUTHORIZATION TO OFFER A COLLEGE CREDIT CERTIFICATE AND AN ASSOCIATE IN SCIENCE DEGREE (AS) IN BUSINESS INTELLIGENCE

RATIONALE: The Miami Dade College School of Engineering and Technology requests approval to submit a proposal to the Florida Department of Education, seeking to authorize Miami Dade College to offer a Bachelor of Science (BS) degree program in Data Analytics. The program is designed to train and supply a workforce of skilled graduates in data manipulation and analysis across a spectrum of industries. Data Analytics is an emerging 21st century technology, related to the field of data science that is connected to the explosion of "Big Data," and this degree will address the growing demand for skilled professionals to identify, analyze, interpret and

present the volumes of data that are available to organizations in the Information Age.

The primary pathway for the BS in Data Analytics is a newly developed Associate in Science degree program in Business Intelligence. Intentionally designed as a stackable credentialing pathway, students will be able to enroll in a new College Credit Certificate in Business Intelligence, continue to the AS in Business Intelligence then further develop skills and enhance career growth opportunities through the BS in Data Analytics. The baccalaureate program also provides articulation opportunities for students graduating with associate in science degrees in information technology, business and mathematics disciplines as well as for graduates with associate in arts degrees.

The interdisciplinary program is comprised of content from three academic areas - Computer Science, Mathematics, and Business. As a result of program completion, students will acquire skills in statistics and probability, predictive analytics algorithms, data mining, data visualization, data security and governance, big data and business intelligence. A capstone course will provide students with the opportunity to synthesize their learning by developing solutions for real-world problems in data mining and analytics, to document their work in scholarly reports, and to present their methodology and results to faculty and peers.

RECOMMENDATION: Miami Dade College is authorized to submit a proposal to offer a Bachelor of Science (BS) Degree Science in Data Analytics to the Chancellor of the Florida College System and Miami Dade College is authorized to offer a College Credit Certificate and an Associate in Science (AS) degree in Business Intelligence.

MIAMI DADE COLLEGE DISTRICT BOARD OF TRUSTEES REGULAR MEETING JAMES K. BATTEN COMMUNITY ROOM ROOM 2106, WOLFSON CAMPUS APRIL 19, 2016 8:00 A.M.

MINUTES

PRESENT

Members of the Board

Ms. Helen Aguirre Ferré, Chairman Ms. Marili L. Cancio, Esq. Mr. Daniel Diaz Leyva, Esq. Mr. Bernie Navarro Mr. Armando J. Olivera

Administration

Dr. Eduardo J. Padrón, President Dr. Rolando Montoya, Provost for Operations Dr. Lenore Rodicio, Provost for Academic & Student Affairs Dr. Julie Alexander, Vice Provost, Academic Affairs Dr. Joanne Bashford, President, InterAmerican Campus Ms. Iliana Castillo-Frick, Vice Provost, Human Resources Dr. Wendy Chang, Vice Provost, Information Technology & CIO Mr. Mark Cole, Executive Director, MDC Foundation Dr. Archie Cubarrubia, Vice Provost, Institutional Effectiveness Ms. Carmen Dominguez, Legal Counsel Dr. Mark Everett, President, Medical Campus Dr. Malou Harrison, President, North Campus Dr. Jeanne F. Jacobs, President, Homestead Campus

Mr. E.H. Levering, Senior Vice Provost, Business Affairs & CFO Mr. James Louis, Student Government Association, Wolfson Campus Dr. Kathy Maalouf, Vice Provost for Student Services
Mr. Roman Martinez, Group Director, Purchasing Dr. Beverly Moore-Garcia, President, Kendall Campus
Ms. Neyda Otero, Interim Vice Provost, Facilities Dr. Roger Ramsammy, President, West Campus
Ms. Yesenia Sanabria, Support Staff Council, Wolfson Campus Dr. Rick Soria, President, Wolfson Campus
Mrs. Tauri Gittings, Collegewide CASSC, Inter-American Campus

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The mission of Miami Dade College is to change lives through the opportunity of education.
As democracy's college, MDC provides high quality teaching and learning experiences that are accessible and affordable to meet the needs of our diverse students and prepare them to be responsible global citizens and successful
lifelong learners. The College embraces its responsibility to serve as an economic, cultural and civic beacon in our community.

The April 19, 2016 meeting of the Board of Trustees was called to order by Chair Helen Aguirre Ferré at 8:20 a.m., followed by a moment of silent reflection and the Pledge of Allegiance.

APPROVAL OF THE MINUTES OF THE REGULAR MEETING – MARCH 22, 2016

Chair Ferré asked if there were any questions or issues regarding the Minutes. Trustee Cancio requested that the Minutes be amended to reflect her comment at the prior Board meeting stating the specific amount the College was offering to pay for the City of Miami Fire Station property located adjacent to the Wolfson Campus: $21 million. A motion to accept the Minutes with Trustee Cancio's amendment was voiced by Trustee Navarro and seconded by Trustee Olivera. It passed by unanimous declaration.

INTRODUCTIONS

Miami Dade College President Padrón asked Wolfson Campus President Dr. Rick Soria to speak about the Newman Civic Fellows Award winner, Miami Dade College (MDC) student Maydee Martinez. Dr. Soria thanked President Padron and noted that this award recognizes student civic engagement and that this year's recipient is a second year Honors College student. He then introduced Josh Young, Director of Institute of Civic Engagement & Democracy, who spoke about Ms. Martinez and her achievements.

Mr. Young informed the Board that Ms. Martinez is one of 218 students nationwide named a Newman's Civic Fellow and he provided a brief history of Dr. Newman and the award. Mr. Young described Ms. Martinez's accomplishments, which includes maintaining a 3.85 GPA, and he stated that she will be graduating in May. He noted her outstanding record of civic engagement, which includes serving as a campus Vote Project Representative for the 2014 mid-term elections and an Andrew Goodman Foundation Vote Ambassador. In these roles, she helped organize dozens of non-partisan events to inform and engage students. She also Co-founded and serves as the Executive Board Member of Engage Miami. Her efforts have helped register to vote more than 600 MDC students. Last year, Maydee earned the Bronze President's Volunteer Service Award. This year, she has served more than 400 hours and will be recognized with the Gold Award. Most recently, she created Democracy United – a voter education initiative and was one of 30 students invited to attend the Clinton Global Initiative.

Ms. Martinez was invited to speak about her experiences. After thanking Dr. Padrón for nominating her for the Newman Civic Fellows Award, she spoke of the importance of democracy, civic engagement, and service.

Dr. Soria then presented Ms. Martinez with the Newman Award.

Chair Aguirre Ferré congratulated her for her achievements and asked where she went to high school. Ms. Martinez replied, International Studies Charter High School, where she was in the French Baccalaureate program and studied sociology and economics.

Trustee Bernie Navarro asked where she will continue her studies. Ms. Martinez stated that she hasn't decided yet, but has been accepted to the University of Miami, American University in D.C., New College, and University of North Carolina at Chapel Hill. She is waiting to hear from Georgetown University, Harvard University, and Tufts University.

Chair Aguirre Ferré asked Ms. Martinez about her experience at the Clinton Global Initiative. Ms. Martinez informed the Board that it was an incredible experience where she made friends from all over the globe who were working on projects to effect change in our society it was truly inspiring for her.

Trustee Diaz Leyva also commended her for her achievements as well as her mother, who was present.

FLORIDA CAREER PREPAREDNESS AWARD

President Padrón requested that Provost Rodicio introduce those who were there to present the Florida Career Preparedness Award to MDC.

Dr. Lenore Rodicio introduced Nyce Daniel and Nilda Diaz, both of whom were representing the Florida ACT Council, the sponsors of the award. Ms. Diaz noted that she is an MDC alumnus. She described all the qualifications for the award and how MDC met them. Ms. Daniel and Ms. Diaz then spoke of the award, its purpose, and congratulated the College for winning it. The MDC Board was then presented with the award.

ERP Steering Committee

President Padrón discussed the Board's commitment three years ago to invest in and implement a new Enterprise Resource Planning system (ERP). He expressed his satisfaction that after much hard work from many dedicated employees, two of the most important components – finance and human resources – are now complete and fully operational. He noted that there have been only a few minor glitches, which is a testament to the staff's fine work. He then recognized and acknowledged the members of the ERP Steering Committee: Dr. Rolando Montoya, Chair, Dr. Lenore Rodicio, Dr. Beverly Moore-Garcia, Dr. Wendy Chang, E.H Levering, Iliana Castillo- Frick, Dr. Julie Alexander, Dr. Kathy Maalouf, Ruth Ann Balla, Executive Director of ERP Implementation Project, and Chris Starling, who led the finance area.

Also acknowledged were the Core Team Representatives: Mayra Alfonso and Olga Morey (Finance Group), Fritz Laurenceau and Mary De Laosa (Human Resources), Rachel Mumford (Payroll), Marta J. Mitzenmacher (Business Intelligence Analytics), Patricia Lezpona (Technical Development), Javier Munoz (Technical Infrastructure), Zeraida Camps (Cyber Security), and Eddy Martinez (Organizational Change Management).

Trustee Armando Olivera congratulated the staff for the phenomenal job that they have done.

PRESENTATIONS TO THE BOARD

Dr. Padrón discussed the proposed new Analytics Program and the Fashion Program and described how these programs will help MDC meet a tremendous workforce need in the community. He noted that the Mitchell Wolfson, Sr. Foundation had provided strong financial support in the amount of $3 million for the programs. He commented that the Analytics Program will be the first of its kind in Florida and will surely be replicated in other markets. Dr. Padrón then asked Dr. Soria to introduce the programs.

NEW ACADEMIC PROGRAMS

Dr. Rick Soria advised the Board that the two new programs will be hosted on the campus and after he provided an overview of both, he introduced Wolfson Campus Interim Dean of Academic Affairs Diana Bien-Aime and Ms. Marimar Molinary, the College's Director of Academic Program Development.

Ms. Molinary spoke of the planning work completed for the College's proposed new Associate in Science degree in Fashion and Merchandising noting that this past year, meetings had been conducted with key decision-makers in the fashion industry, surveys have been taken, talks with designers and retailers had occurred, and visits to factories conducted. She noted that fashion industry representatives that staff met expressed the fact that they share MDC's vision for the program and that there is not a large enough skilled workforce to grow the industry. Ms. Molinary stated that designers are bringing their entire operations to Miami from Asia, New York, and Paris, local designers want to grow their businesses, the Design District is expanding, and that the College has a tremendous opportunity to be at the forefront of these dynamic and exciting changes and answer the fashion industry's workforce needs by making this program a reality. She advised the Board that MDC would be the only public, higher-education institution to offer this program in Florida and that the fashion industry is a trillion dollar international industry and our community deserves and needs to have a high quality, cutting edge, affordable, and accessible educational program. She stated that an informed curriculum has been developed by MDC's faculty and consultants, who have their pulse on the fashion industry, and that fashion designers and retailers have made a commitment to develop internships, mentor students, and provide class lectures from experts who have real-world experience. Ms. Molinary introduced Dean Bien-Aime for the rest of the presentation.

Dean Bien-Aime informed the Board that surveys have revealed that there is definitely a need for a workforce skilled in industry-specific technology such as pattern makers, merchandising, and logistics. She commented that starting salaries range from $40,000 -- $64,000 and that MDC students in this program will learn effective communication and critical thinking skills. Program objectives include students being able to differentiate design and management fashion cycles, respond to fashion cycles as well as differentiate between marketing and design and merchandising. She noted that there are a total of 17 courses in the program. The students

will first go through core courses, which will give them experience in textile science, illustration, and the business aspects of the industry. She noted that the cost of the program is significantly less than ones offered at private institutions and that the students will concentrate in either fashion design or fashion merchandising.

Chair Aguirre Ferré commented how Miami used to be a manufacturing center many years ago.

Trustee Navarro asked about the jobs that will be filled after the students graduate. Ms. Molinary informed him that local designers are looking to expand and need employees with the skills that MDC will equip students with. Some business owners are specifically looking for pattern makers, assistant fashion designers, seamstresses, and those with product development knowledge. On the retail side, those with knowledge of forecasting, distribution, supply chain, buyers are needed.

Dr. Padrón was asked by Chair Aguirre Ferré how the College will market this program in light of local competition. President Padron responded that a comprehensive marketing plan had been developed that would utilize traditional and social media. Trustee Navarro inquired about the competition and Dr. Padrón informed the Board that there are two local private institutions that offer fashion design programs which are very expensive for students. He commented that MDC's program will provide a very solid background for students to develop their talents and be employed in this industry and that the College has an incredibly powerful advisory board for this program, which includes top leaders from Nieman Marcus, Saks, and Nordstrom as well as designers from France, New York and Miami which will enable the College to have a first-rate program and to place our students in internships as well as provide job opportunities from all over the world. This program also provides opportunities to make connections with the best fashion schools in Italy and France so that students can do internships and Summer programs and be exposed to the international fashion industry.

Trustee Cancio also inquired as to where the program will be offered. Dr. Padrón responded at the Wolfson Campus for now. The College will be ready to start the program this Fall.

Chair Aguirre Ferré asked how much the Wolfson Foundation gave for this program. Dr. Padrón replied that it gave $2 million for this program.

Trustee Olivera requested information about the entrance requirements for this program. Dean Bien-Aime informed him that the same requirements as an open-access institution apply, and that the College will take into account those who enter with prior learning experience, particularly those with fashion design knowledge.

Trustee Leyva asked if there were any high schools that MDC is collaborating with to create a fast track for graduates. Dean Bien-Aime stated that there is one institution and the goal is to move forward with dual enrollment. Dr. Rodicio added that DASH offers a fashion program. The College is in talks with the Miami-Dade County School District to see how MDC can dovetail with its program and provide a direct pipeline to the MDC program.

Dean Bien-Aime then introduced Dr. Djuradj Babic, Director of the School of Engineering and Design Technology, who presented on the College's proposed Bachelor of Science (BS) Degree in Data Analytics. He informed the Board that workforce opportunities are great for our local economy in this area and that Data Analytics is an emerging field.

Dr. Babic noted that a similar program offered by FIU precludes students from qualifying for Data Analytic positions because the FIU program does not include mathematics, statistics, and business competencies and that the companies that hire students from FIU will have to provide internal training. The College considered these factors when creating its Data Analytics curriculum and it includes all the necessary competencies for which employers are looking in graduates. He noted the hourly wage for Data Analysts is $43.27 and the starting annual salary is in the $90,000 range. In Florida, there is no other institution that offers an undergraduate degree in Data Analytics. He advised the Board that Dr. Elizabeth Behar, FIU's Vice Provost of Academic Affairs, contacted Dr. Rodicio to commend the College's efforts and suggest a 4+1 model with their Master's degree in Data Science, and it is currently being developed.

This program is designed as an accessible and affordable option for MDC students and was developed as a stackable credentials pathway that allows seamless articulation into upper division coursework. This pathway offers shorter term with labor market values, leading to accelerated entrance to the job market and incremental growth opportunities, starting with a college credit certificate in Business Intelligence. This certificate also serves an advanced technical certificate for graduates who want to explore Data Analytics and enhance their existing skills to compete in the job market.

Dr. Babic noted that several prominent employers and organizations have partnered with the College in the development of the program's curriculum including NextEra Energy Resources, Siemens Energy, the Business-Higher Education Forum, Accenture, SAS, Oracle, Miami Children's Hospital, Miami-Dade County Public Schools and Miami-Dade County just to name a few. Already there is great interest in this degree and the Data Analysts it will produce.

Chair Aguirre Ferré commented that she is impressed with the industry partners involved in the curriculum development. She wanted confirmation that mathematicians are a critical component to this industry's success. Dr. Babic confirmed it and stated that statistics and mathematics are integrated into this curriculum.

She then asked what would it entail for a certificate program in this area. Dr. Babic informed the Board that four core courses would incorporate the entire data analytics process plus all five steps, and shrink it into fundamentals.

Trustee Cancio asked if the moratorium on bachelor's degrees has been lifted and if this program has been approved. Dr. Rodicio replied that moratorium has been lifted and the College has submitted a letter of intent to submit a proposal. She noted that what is being approved by the Board is the submission itself to the Florida Department of Education so that

MDC can receive state board approval and the College can then offer the degree. MDC hopes to launch this in the Fall, but no later than the Spring.

ACTION AGENDA

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1. DISCUSSION

a. Proposed Tuition, Out-of-State, and other Student Fees.

Dr. Padrón discussed the fact that an important component of preparing the annual budget for the fiscal year is student tuition, which is almost 50 percent of the College's revenue. For the institution to do anything with tuition and fees, the Legislature must give MDC the authority to do that. The Legislature took no action this year with respect to student tuition and fees, therefore, tuition and fees will remain the same.

Chair Aguirre Ferré commented that at $82.78/per credit, obtaining a degree at the College is very competitive. She noted that the limitations placed upon the institution by the Legislature require the College to be more creative and to bring in additional funding. She stated however, that the Board cannot expect to require students to pay more especially since many MDC students are struggling financially.

Trustee Navarro stated that he would repeat his long held belief that to maintain the low tuition, the College needs to attract more out of state students and develop housing to support them.

Trustee Olivera wanted to know what percentage of revenue are derived from tuition and fees. CFO E.H. Levering responded approximately 48 percent.

Trustee Cancio stated that there is also a significant number of unfunded, full-time students. Mr. Levering replied that between exemptions and waivers, it is between 5–10 percent range; dollar-wise. He noted that to support them, the College offers institutional scholarships where it is expending money to pay for tuition for deserving students. In part, these funds come from the Foundation and there are financial aid fees to help fund this service.

2. PUBLIC HEARING

a. College Policy I-21: Equal Access/Equal Opportunity.

Chair Aguirre Ferré opened up this item for a public hearing. She invited anyone

who wanted to speak to do so. No one came forward. The public hearing portion was then closed.

She then asked Dr. Padrón to comment on this item. He stated that it is on the agenda because there are three areas where the current policy I-21 has to be amended to comply with Federal law. They are in keeping with the Board's vision and principles that allow the Board to establish this policy.

The Item was moved by Trustee Marili Cancio and seconded by Trustee Armando Olivera. It passed by unanimous declaration.

3. ACTION AGENDA

a. Authorization to Negotiate with the Ranked Finalists Related to the Supplemental Information Package (SIP) USP3-2015-20-10–Public/Private Partner-Ship for the Development of a Mixed Use Project at 520 Biscayne Boulevard, Miami, Florida 33132.

Dr. Padron introduced the item by stating that the Board item being considered basically summarizes the process the College began on October 23rd, 2012 when the Board authorized the Administration to issue Invitations to Negotiate (ITNs) for development of projects at the Wolfson and Medical Campuses. He noted that the Committee appointed to review proposals submitted in response to the Wolfson Campus ITN had made recommendations to the College President, which he has endorsed, and is presenting to the Board. He stated that the Board item also requests permission for the Administration to proceed with negotiations with the finalists selected by the Committee to reach hopefully beneficial terms and opportunities for the College to grow and provide benefits to the students.

Chair Ferré thanked the College President and reminded the Board that there is a cone of silence in place and summarized what was expected from the Board through this item: to allow the College to begin separate conversations and negotiations with the finalists. She emphasized that at the conclusion of the negotiations, the Board would be asked to vote on terms negotiated by the College. She noted the synergies between the College and business community that could arise through a Public Private Partnership such as this ITN. The Chair then opened the discussion to the members of the Board.

Trustee Cancio expressed her frustration at her inability to have access to information regarding the projects as a result of the cone of silence and the State's Sunshine Laws and her need to have to rely on the media for information about the progress of the ITN process. She also shared her concern that she felt hampered in her ability to fully review the scope of the project by those legal restrictions. She acknowledged that the College Administration was handling the

project appropriately and she complimented the staff for always representing the College so professionally. She noted however, that as a decision-maker, she feels that the Public Private Partnership (PPP) model is frustrating. She compared the selection process required by the statutes that govern potential PPPs to the College's selection of architectural services, which usually include three finalists selected by the Board. She expressed her belief that negotiating with three finalists made more sense than negotiating with just two entities. She noted that she looks forward to completing the process that that will result in a project that benefits the College.

Trustees Olivera asked why the Selection Committee recommended only two finalists to the College President. Provost Montoya responded that the recommendation made to the College President by the Selection Committee, which he chairs, was based upon rankings that indicated that the top two candidates received more points than the other two. He also clarified that that the process for selecting architects was completely different than the process for the selection of entities through an invitation to negotiate process. He noted that the Board ranks the architectural firms and authorizes staff to begin negotiating with the selected firm. Only if negotiations fail, will staff begin negotiations with the 2nd ranked firm. The selection process for firms through an ITN requires Board authorization to negotiate with one or more firms simultaneously so that staff can extract the most beneficial offer for the College. He noted that negotiating with the third ranked candidate was still possible. Trustee Olivera then asked for clarification on the scores of each proposer. Provost Montoya shared those figures. Trustee Olivera asked what was required to add the third highest ranked firm to the negotiations. Provost Montoya commented that it was completely feasible to include the third ranked firm, if that was the will of the Board, yet he noted that adding a third party to the negotiations would delay the process as the discussions were very time-consuming and detailed for the staff involved. Trustee Cancio stated that she would feel more comfortable adding the third ranked firm to the discussions and Trustee Diaz Leyva expressed his support as well.

Trustee Diaz Leyva asked for confirmation that the Board item as presented was authorizing staff to only negotiate with the top two firms and that negotiations with the third ranked firm would only begin if negotiations with the top two firms failed. Provost Montoya stated that that was correct. Trustee Diaz Leyva noted that there were beneficial elements in the proposal submitted by the third ranked entity, and he again suggested that including that group would be in the College's best interests.

Chair Ferré also supported that suggestion and Trustee Olivera's comment that the spread between the 2nd third ranked firm was not severe.

President Padron agreed that it would maximize the opportunities available to the College to include the third ranked entity and that the Board could certainly direct the College to move forward accordingly, with the understanding that it would take much more time.

Trustee Cancio then made a motion to direct staff to commence negotiations with the top three ranked firms, the motion was seconded by Trustee Navarro and approved unanimously.

After the vote was held Trustee Olivera asked that the Board have ample opportunity in the future, prior to any votes on accepting a proposal negotiated by staff, to thoroughly review the details of the various proposals. Specifically, he requested that information be made available to the trustees on the following three issues:

- *Is the College receiving at least fair market value for the property and what are the metrics used to determine how the property value is determined?*

- *How can the College sustain and operate the project once it is complete, given the unmet facility needs at the institution and the College's limited resources?*

- *Will what is being proposed contribute the most to our community recognizing that the property is owned by citizens and the Board is responsible for maximizing its resources?*

He concluded his comments by thanking staff for all of their efforts in moving the project forward and he acknowledged the difficult work still to come. Chair Ferré also thanked staff for their efforts on behalf of the College, its students and the community, she noted the benefits of PPPs and the potential opportunities Gov. Scott and many others believe they can offer public institutions such as MDC.

Trustee Cancio then stated that it was imperative to ensure that whatever project is chosen, that the College develop certain requirements and safeguards to ensure the project is completed fully and without any additional resources having to be provided by the College. Trustee Diaz Leyva shared his strong support for Trustee Olivera's insistence that the project be sustainable and Trustee Cancio's concern that the project not be allowed to fail prior to completion.

President Padron thanked the Board for their concern and thoughtful feedback and assured the members that the Administration would continually keep the Board apprised of the progress of the negotiations and would work diligently to make the project successful and sustainable.

Trustee Navarro and Trustee Cancio then shared their interest in being kept

continually appraised of the progress of the discussions with the finalists despite the strict limits on available information that are in place because of State Statutes.

Provost Montoya noted that the College attorney and director procurement were ready to provide information on the ways the Board members could remain engaged in the process. The College's outside legal counsel for the project, Suzanne Amaducci-Adams, then approached the podium to comment on the issue. She noted that she and the other consultants retained by the College were available to answer specific questions about how the Board could stay up to date on the negotiations within the confines of the Sunshine Laws and Cone of Silence restrictions. She agreed with the Trustee Olivera's suggestion that a special meeting or regular Board meeting or a workshop were all available opportunities to provide information to the Board. She concluded her remarks by reminding the Board that all Evaluation Committee meetings are open to the public and therefore, also open to the Board. She noted that the Committee's discussions about each proposal would eventually be discussed in that type of meeting and attending the meeting would be a great opportunity for the Board to hear specific details of each proposal.

b. **Authorization to Offer an Associate in Science Degree (AS) at MDC in Fashion Design and Merchandising.**

Chair Ferré noted that the Board had just received a presentation on the next two Board items and asked if there were any additional questions. None were raised and the Item was moved by Trustee Daniel Diaz Leyva and seconded by Trustee Armando Olivera. It passed by unanimous declaration.

c. **Authorization to Submit a Proposal to the Florida Department of Education to Offer a Bachelor of Science (BS) Degree in Data Analytics Pursuant to Section 1007.33, Florida Statutes, Site-Determined Baccalaureate Degree Access**

And

Authorization to Offer an Associate in Science Degree (AS) and a College Credit Certificate in Business Intelligence

The Item was moved by Trustee Bernie Navarro and seconded by Trustee Marili Cancio. It passed by unanimous declaration.

Trustee Leyva requested an update in a year on these degrees once they are up and running as well as afterward when the College has its first graduates.

4. **NEW WORLD SCHOOL OF THE ARTS**

a. Report of Contracts.

b. Report of Travel.

CONSENT AGENDA

All the other items in the Consent Agenda were moved by Trustee Armando Olivera and seconded by Trustee Marili Cancio. They passed by unanimous declaration.

After the consent agenda was approved, Dr. Padrón discussed consent agenda item 1C, ratification of the Division of Florida College Annual Equity Update. He informed the Board that MDC received a commendation from the state because the institution was used nationally as an example as an institution that does a fantastic job in terms of equity. The Board should not take that for granted.

Also, Dr. Padrón commented on the Financial and Federal Audits for the Fiscal Year Ended June 30, 2015. He stated that he is very proud of the results of the audits, which reflect well on the College. He thanked E. H. Levering and his staff who ensure that the College's resources are strictly monitored and managed.

Chair Aguirre Ferré asked the Board to look at page 327 the item Authorization to Enter into a Five-Year Lease Agreement with Miami-Dade County, with an Option to Renew, for Administrative Office and Class and Training Room Space for the Hospitality Institute at the Culmer Community Resource Center. She informed the Board that it is an important program and the work done with the hospitality industry is phenomenal. She commended and thanked Julie Grimes, Chair of the MDC Foundation, who does so much for the hospitality institute and to move the program forward.

Chair Aguirre Ferré asked Dr. Padrón for an update on the West Campus garage incident. Dr. Padrón informed the Board that the final report was forthcoming. No one was badly hurt; the injuries were minor. It is unknown how long this will delay the project.

Dr. Padrón clarified that the garage did not collapse; but that an accident occurred when the crane operator was putting in place a beam. Everything has been analyzed to ensure there are no further issues, and everything is in order.

At the conclusion of Dr. Padron's remarks, Chair Ferré adjourned the meeting.

1. <u>TEMS FOR RATIFICATION</u>

a. Ratification and Approval of Specific Remodeling/Renovation and New

Construction Projects Being Performed at the College under Agreements with Construction Management Firms.

b. Personnel Action Recommendations.

c. Ratification of Division of Florida College Annual Equity Update 2015-2016.

d. Financial and Federal Audits for the Fiscal Year Ended June 30, 2015.

2. CONTRACTS, AGREEMENTS, & LEASES

a. Authorization to Enter into a Five-Year Lease Agreement with Miami-Dade County, with an Option to Renew, for Administrative Office and Class and Training Room Space for the Hospitality Institute at the Culmer Community Resource Center.

3. GRANTS

a. Authorization to Accept Funds Awarded from Branches, Inc., United Way Center for Financial Stability Volunteer Income Tax Assistance Program, Via the Internal Revenue Service, to Support Kendall Campus, School of Business, Volunteer Income Tax Assistance Program Partnership, Implemented at the Kendall, North, and Wolfson Campuses (Kendall Campus, CPN C15-0256).

b. Authorization to Accept Funds, if Awarded, from the National Endowment for the Humanities, Summer Seminars and Institutes, to Support North Campus, Department of Arts and Philosophy, Empathy and Ethics (North, CPN G15-0127).

c. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Community Grants, to Support North Campus, Department of Arts and Philosophy, Miami-Dade County Advanced Placement Art Exhibit (North Campus, CPN G15-0140).

d. Authorization to Accept Funds, if Awarded, from the U.S. Department of Labor, Employment and Training Administration, Tech Hire Partnership Grants, to Support District, Workforce Partnerships and Education, Acquiring Credentials and Creating Experiential Learning in Tech Project (District, CPN G15-0150).

e. Authorization to Accept Funds, if Awarded, from the Health Foundation of South Florida, Direct Services Grant, to Support District, Mental Health First Aid (District, CPN G15-0195).

f. Authorization to Accept Funds, if Awarded, from the U.S. Department of Education, Office of English Language Acquisition, National Professional Development Program, to Support InterAmerican Campus, School of Education, Preparing Excellent Teachers to Teach through Language and Culture Project

(InterAmerican Campus, G15-0200).

g. Authorization to Accept Funds, if Awarded, from the U.S. Department of Commerce, National Institute of Standards and Technology, Summer Undergraduate Research Fellowship, to Support North Campus, School of Science (North Campus, CPN G15-0209).

h. Authorization to Accept Funds, if Awarded, from the U.S. Department of Justice, Grants to Reduce Sexual Assault, Domestic Violence, Dating Violence, and Stalking on Campus Program, to Support North Campus, Access, Miami Dade College North Campus Violence Prevention Program (North Campus, CPN G15-0216).

i. Authorization to Accept Funds, if Awarded, from the U.S. Department of Education, College Assistance Migrant Program, to Support Homestead Campus, College Assistance Migrant Project (Homestead Campus, CPN G15-0217).

j. Authorization to Accept Funds, if Awarded, from the U.S. Department of Agriculture, Hispanic-Serving Institutions Education Grants Program, to Support Wolfson Campus, Department of Natural Sciences, Health, and Wellness, Plants, Animals, and Nature Project (Wolfson Campus, G15-0219).

k. Authorization to Accept Funds, if Awarded, from the U.S. Department of Agriculture, Hispanic-Serving Institutions Education Grants Program, to Support Kendall Campus, Department of Biology, Health, and Wellness, Agriculture Acceso, Preparación, Éxito Project (Kendall Campus, CPN G15-0224).

l. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Capital Development Grants, to Support District, MDCulture, Koubek Center (District, CPN G15-0225).

m. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Hannibal Cox, Jr. Cultural Grants, to Support District, MDCulture, Miami Dade College Museums and Galleries of Art + Design, 2016–2017 Museum Exhibitions and Public Engagement Programs (District, CPN G15-0231).

n. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Hannibal Cox, Jr. Cultural Grants, to Support Wolfson Campus, Lynn and Louis Wolfson II Florida Moving Image Archives, 2016–2017 Program Activities (Wolfson Campus, CPN G15-0232).

o. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Hannibal Cox, Jr. Cultural Grants, to Support Wolfson Campus, Department of Arts and Philosophy, 2016–2017 Jazz at Wolfson Presents Visiting Artist Series (Wolfson Campus, CPN G15-0233).

p. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Cultural Advancement, to Support District, MDCulture, Mdc Live Arts (District, CPN G15-0235).

q. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Hannibal Cox, Jr. Cultural Grants, to Support District, MDCulture, Koubek Center, 2016–2017 Performance Season (District, CPN G15-0236).

r. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Cultural Advancement, to Support District, MDCulture, Miami Book Fair Year Round (District, CPN G15-0237).

s. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Community Grants Program, to Support District, MDCulture, Prometeo Theater, Teatro Prometeo Presents Caceria (District, CPN G15-0261).

t. Authorization to Accept Funds, if Awarded, from Miami-Dade County, Department of Cultural Affairs, Hannibal Cox, Jr. Cultural Grants, to Support District, MDCulture, Prometeo Theatre, 2016–2017 Performance Season (District, CPN G15-0262).

u. Authorization to Accept Funds, if Awarded, from the U.S. Department of Commerce, National Institute of Standards and Technology, Summer Undergraduate Research Fellowship, to Support North Campus, School of Science (North Campus, CPN G15-0278).

v. Authorization to Accept Funds, if Awarded, from Mexico, Proyecta 100,000, to Support District, International Education (District, CPN G15-0280).

w. Authorization to Accept Funds, if Awarded, from the Early Learning Coalition, Formal Education and Credentialing, to Support InterAmerican Campus, School of Education (InterAmerican Campus, CPN G15-0282).

x. Authorization to Accept Funds Awarded from the American Legion Auxiliary, AmeriCorps Vista Call to Service Initiative, to Support District, Military and Veterans Services Department, AmeriCorps Vista Project (District, CPN G15-0289).

y. Authorization to Accept Funds, if Awarded, from the Association of Performing Arts Presenters, Building Bridges, to Support District, MDCulture, MDC Live Arts, Ojalá (District, CPN G15-0290).

z. Authorization to Accept Funds, if Awarded, from Florida Blue and Managed by the Florida Literacy Coalition, Florida Health Literacy Initiative, to Support Kendall Campus, School of Continuing Education and Professional Development, Health

Means Salud Project, Implemented at InterAmerican Campus (Kendall Campus, G15-0291).

aa. Authorization to Accept Funds, if Awarded, from Florida Blue and Managed by the Florida Literacy Coalition, Florida Health Literacy Initiative, to Support Kendall Campus, School of Continuing Education and Professional Development, Health Literacy Project, Implemented at Hialeah Campus (Kendall Campus, G15-0292).

bb. Authorization to Accept Funds, if Awarded, from the U.S. Department of Agriculture, Hispanic-Serving Institutions Education Grants Program, to Support District, Innovative Curriculum for Agricultural Training and Career for Hispanics, Implemented at the Homestead and North Campuses (District, G15-0316).

cc. Authorization to Accept Funds, if Awarded, from the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission, Criminal Justice Professionalism Program, to Support North Campus, School of Justice, Region XIV Law Enforcement and Correctional Training (North Campus, CPN G15-0317).

4. PURCHASING

a. Authorization to Purchase Audiovisual Equipment for the Remodeling and Renovation Project, InterAmerican Campus, ITB 2016-6-32.

b. Report of Bid Awards/Purchase Orders/Agreements for Services Approved by College Provost/President as per College Policy VI-2.

c. Minority and Female-Owned Business Utilization Report.

5. CAPITAL OUTLAY

a. Authorization to Enter into Property Easement Agreement with Florida Power and Light Company (FPL) for the Construction, Operation and Maintenance of Overhead and Underground Electric Utility Facilities at the Wolfson Campus.

b. Authorization to Award Modernizations of Elevators, Wolfson Campus.

REPORTS AND INFORMATIONAL ITEMS

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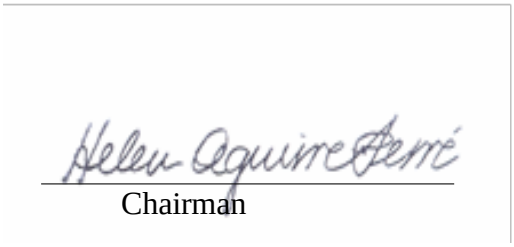
a. Report of Contracts.

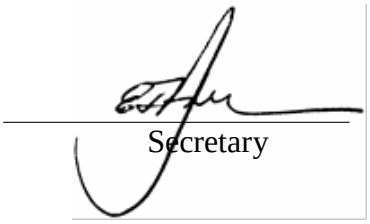
b. Report of Various Leaves.

c. Grants Production Report.

There being no further business, Chairman Ferré adjourned the meeting at 10:20 a.m.



Chairman



Secretary

Appendix H
Letter of Notification to SACSCOC

SACS COC™
SOUTHERN ASSOCIATION OF COLLEGES AND SCHOOLS
COMMISSION ON COLLEGES

April 4, 2016

Dr. Eduardo J. Padron
President
Miami Dade College
300 N.E. Second Avenue
Suite 1474
Miami, FL 33132-2297

Dear Dr. Padron:

Thank you for your letter of December 1, 2015, notifying the Commission of your intent to offer a new Bachelor of Science in Data Analytics degree program, effective fall 2016. This will be an interdisciplinary program comprised of content from computer science, mathematics, and business. The institution currently offers the following related programs:

B.A.S. in Supervision and Management
B.A.S. in Supply Chain Management
B.S. in Information Systems Technology
A.A. in Computer Information Systems
A.A. in Computer Science
A.A. in Mathematics
A.S. In Computer Information Technology
A.S. in Database Technology

In addition, the College offers numerous certificate programs in the areas of business and computer systems/technologies. The degree will require a minimum of 120 credit hours. The curriculum for the program will utilize existing courses from approved programs and the addition of several new courses. The new courses are closely related to courses currently available in other degree programs. The new degree does not appear to be a significant departure from existing approved programs.

We accept notification of the new Bachelor of Science in Data Analytics degree program and require no additional information.

Best regards,

Belle S. Wheelan

Belle S. Wheelan, Ph.D.
President

BSW/JWS:efk

cc: Dr. Lenore Rodicio, Provost for Academic and Student Affairs
Dr. Nuria M. Cuevas

1866 Southern Lane • Decatur, Georgia 30033-4097 • Telephone 404/679-4500 • Fax 404/679-4558
www.sacscoc.org

FIU | FLORIDA INTERNATIONAL UNIVERSITY

September 8, 2016

Eduardo J. Padrón, Ph.D.
President
Miami Dade College
300 NE 2nd Avenue
Miami, Florida 33132

Dear Dr. Padrón:

This letter serves to inform you that Florida International University (FIU) supports your proposed BS in Data Analytics degree. We look forward to collaborating with your program and will be pleased to welcome future graduates to advanced studies at FIU.

We wish you success in this new academic program.

Sincerely,

Mark B. Rosenberg
President

CC: Kenneth G. Furton, Provost and Executive Vice President
Elizabeth M. Bejar, Vice President for Academic Affairs

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