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**BROWARD
COLLEGE**

Define yourself.

To: Members of the Board of Trustees

From: J. David Armstrong Jr., President

Date: January 27, 2009

Place: Regular Meeting of the Board of Trustees
Broward College
A. Hugh Adams Central Campus - Bldg. 17/Room 425/426
3501 S. W. Davie Road
Davie, FL

Subject: Agenda Item IV-G-2-November 2008 Curriculum Items - New ATC Program

Brief Description:

Recommendation includes: Associate in Applied Science (AAS) in Air Traffic Control proposed by the Aviation department drafted with eight new courses plus existing Aviation and general education courses.

The package of eight new air traffic control courses support minimum FAA standards for our graduates to be recommended to the FAA Academy.

Benefit to BC:

With the establishment of Aviation's Air Traffic Control program, BC is adding another high quality educational program that will provide accessibility to a diverse community of learners, as evidenced by the FAA's certified partnership with BC.

Relationship to College Master Plan:

Provides an access point for a motivated, diverse and select student population to learn/train for future enrollment in a FAA certified partnership program of study. BC will be providing these select students with an affordable high quality program of study that will incorporate current industry technology in preparation to transfer to the FAA Academy.

Board Agenda Approved: _____
Date: _____

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**BOARD OF TRUSTEES
AGENDA TRANSMITTAL SHEET**

To: President

Date: 1/6/09

From: Vice President Judith Scherer

Subj: Monthly Curriculum Committee Items

Issue: November 2008 Curriculum Items: New Program

Background/Analysis: Curriculum Committee meets monthly to recommend items.

Fiscal Impact: See memorandum for Aviation Operations (Air Traffic Control Specialization) AAS.

Initiating Official



Vice President/Provost

Staff Position:

THIS RECOMMENDED ACTION MEETS THE FOLLOWING ELEMENT(S) OF THE COLLEGE'S MISSION STATEMENT:

<input type="checkbox"/> Providing high quality educational programs	<input type="checkbox"/> Providing high quality services
<input type="checkbox"/> Providing for affordability to a diverse community of learners	<input type="checkbox"/> Providing for accessibility to a diverse community of learners
<input type="checkbox"/> Commitment to student achievement	<input type="checkbox"/> Commitment to lifelong learning
<input type="checkbox"/> Commitment to academic excellence	<input type="checkbox"/> Providing use of current technology

BRIEFLY DESCRIBE HOW THIS RECOMMENDATION ACHIEVES THE ABOVE ELEMENT(S) IN THE COLLEGE'S MISSION STATEMENT:

Minority Firm: Yes ___ No ___ N/A ___

Broward Firm: Yes ___ No ___ N/A ___

MEMORANDUM

TO: Mr. David Armstrong, President
Broward College

FROM: Dr. Judith Scherer,
Vice President for Academic Affairs

RE: November Curriculum Items: New Program

DATE: December 10, 2008

New Program:

The following new program is built around eight new courses in the Aviation area plus existing Aviation and general education courses. Broward College's Air Traffic Control Specialization program is tailored for and approved by the Federal Aviation Administration (FAA).

Aviation Operations (Air Traffic Control Specialization) A.A.S.

Courses: Upon approval of the January 27, 2009 New Courses transmittal by Broward College's Board of Trustees, all courses required by this program will have been approved.

Program Needs Analysis: The Federal Aviation Administration (FAA) employs more than 14,000 air traffic controllers. Over the next decade, approximately 72% of this workforce will become eligible to retire. In order to meet the challenges of this wave of retirements and the increasing demand for air travel, the FAA will hire 15,000 to 17,000 new air traffic controllers over the next 10 years. Graduates of BC's Air Traffic Control program would be eligible to bypass the Air Traffic Basics Course upon admittance to the FAA Academy in Oklahoma City, Oklahoma, which represents the first five weeks of FAA Academy qualification training.

Advisory Committee Endorsement of Curriculum and Program: BC's 17-member Air Traffic Control subcommittee of the Aviation Operations Advisory Committee representing business, industry, federal agency, and aviation training reviewed the courses and program of study on two occasions (July 25, 2008 and January 5, 2009), and provided their endorsement for this program.

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Salary Levels for Graduates: Salaries for fully certified Air Traffic Control Specialists can range from \$59,000 to \$112,000, depending upon the employing airport. Full certification can be achieved after graduation from the FAA Academy and progressing through career level certification requirements. After ten years of experience, salaries can range from \$79,000 to \$150,000.

Available Program Resources:

Funding Source	Description	Amount
CIF*	4 ea. Adacel Radar Simulators	\$ 218,467
Carl D. Perkins*	2 ea. Adacel Radar Simulators	\$ 89,198
Buehler Foundation**	Partial Payment for Tower Simulator	\$ 309,000
Buehler Foundation	Pledge for November 2009	\$ 250,000
State of Florida	Buehler donation Benjamin match 60:40	\$ 368,940
Total		\$1,235,605
* BC BOT approved purchases, equipment in place		
**Donation received, awaiting match funding prior to purchasing Tower simulator for approximately \$640,000.		

Future Program Resource Needs:

Full-time faculty	While the program builds enrollment, courses will be taught by part-time faculty. In order to maintain FAA approved status for this program, we will need to hire at least one full-time faculty in the near future. More faculty may be necessary as the program grows in enrollment.
Lab Coordinator	We will need to hire a full-time lab coordinator within the next fiscal year who can maintain the equipment in the lab, schedule students, and develop scenarios for the computer program.

Program Accreditation/ Industry Approval: BC's Aviation Operations (Air Traffic Control Specialization) AAS program received approval on October 3, 2008 through the Federal Aviation Administration's Air Traffic Collegiate Training Initiative (AT-CTI) as a certified program (among only 31 approved programs in the nation). The AT-CTI is a non-funded program which is designed to establish partnerships with educational institutions and to broaden employment opportunities in the aviation industry. While AT-CTI graduates are not guaranteed employment, the Federal Aviation Administration considers the AT-CTI program graduates a valuable hiring source for Air Traffic Control Specialists.

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Certification and Licensure for Program Graduates: No certification or licensure is available to students upon graduation from this AAS program. In support of the FAA's performance standards, the ATC program requires all students enrolled in the AT-CTI program to maintain a minimum of B (82%) or higher in all ATC core courses in order to be recommended to the FAA Academy by BC's faculty and administration.

Graduates of the Air Traffic Control program receiving BC faculty and administration recommendation (having maintained a minimum of B [82%] or higher in all ATC core courses and having been admitted to the FAA Academy in Oklahoma City, Oklahoma) would be eligible to bypass the Air Traffic Basics Course which represents the first five weeks of FAA Academy qualification training.

During the FAA training process at field locations, developmental controllers achieve certification on each position as they move through the stages of training. The ultimate goal of the FAA training program is for the controller to achieve certification on all positions and attain Certified Professional Controller.

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**Aviation Operations
(Air Traffic Control Specialization)
Associate of Applied Science Major Code A039**

First Semester

<u>Course Number</u>	<u>Course Title</u>	<u>Credits</u>
(1) ATT 1100	Aeronautical Science	3
(1) ASC 1100	Navigational Science	3
(1) ATT 1810	Environment of the ATC	3
(1) ATT 2820	Introduction to ATC	3
(2) CGS 1060C	Computer & Internet Literacy	3

Second Semester

ASC 1210	Aviation Weather	3
ASC 1610	Aircraft Engines, Structures & Systems	
Or		
ASC 1550	Aerodynamics	3
ATT2821C	ATC Radar Procedure with Lab	4
*ASC or AVM	Aviation Elective	3
**MAT 1033	Intermediate Algebra	3

Third Semester

ATT 2822C	VFR Tower Operations with Lab	4
*ASC or AVM	Aviation Elective	3
ASC 2470	Human Factors in Flight and ATC	3
SPC 1024	Introduction to Speech Communications	3
HUM	Humanities Elective	3

Fourth Semester

ATT 2824C	ATC Enroute Operations with Lab	4
ASC 2870	Aviation Safety	3
*ASC or AVM	Aviation Elective	3
ENC 1101	English Composition I	3
SBS	Social Behavioral Science Elective	3
ATT 2826	ATC Capstone Project	1

Total 64

***Aviation Elective Courses**

ASC 2320	Aviation Law and Regulations	3
ASC 1010	Aviation History	3
AVM 1440	Airport / Airline Security	3
AVM 1940	Airport Operations Internship I	3
AVM 2941	Airport Operations Internship II	3
AVM 2450	Airport Planning and Design	3
AVM 2410	Airport Management	3

(1) Co requisites, or department / instructor permission required

**MAC 1105 may be substituted for MAT 1033 if student plans to transfer to upper-level College or university

(2) Students who successfully complete the **Basic Student Technology Literacy** test may select from the ***Aviation Elective Courses** to complete degree requirement

Note: The College's AT-CTI program is tailored for and approved by the Federal Aviation Administration (FAA). With this approval, we are responsible for screening and providing initial training for future FAA Air Traffic Controllers. In support of the FAA's performance standards, the ATC program of the Aviation Department is requiring all students enrolled in the AT-CTI program to maintain a minimum grade a B (82%) or higher in all ATC core courses. This does not mean you can not graduate with an Associate of Applied Science Degree in Air Traffic Control, but it does mean you will not be recommended by the Faculty or Administration of Broward College's Air Traffic Collegiate Training Initiative to the FAA.

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