

CCBC Aviation Academy

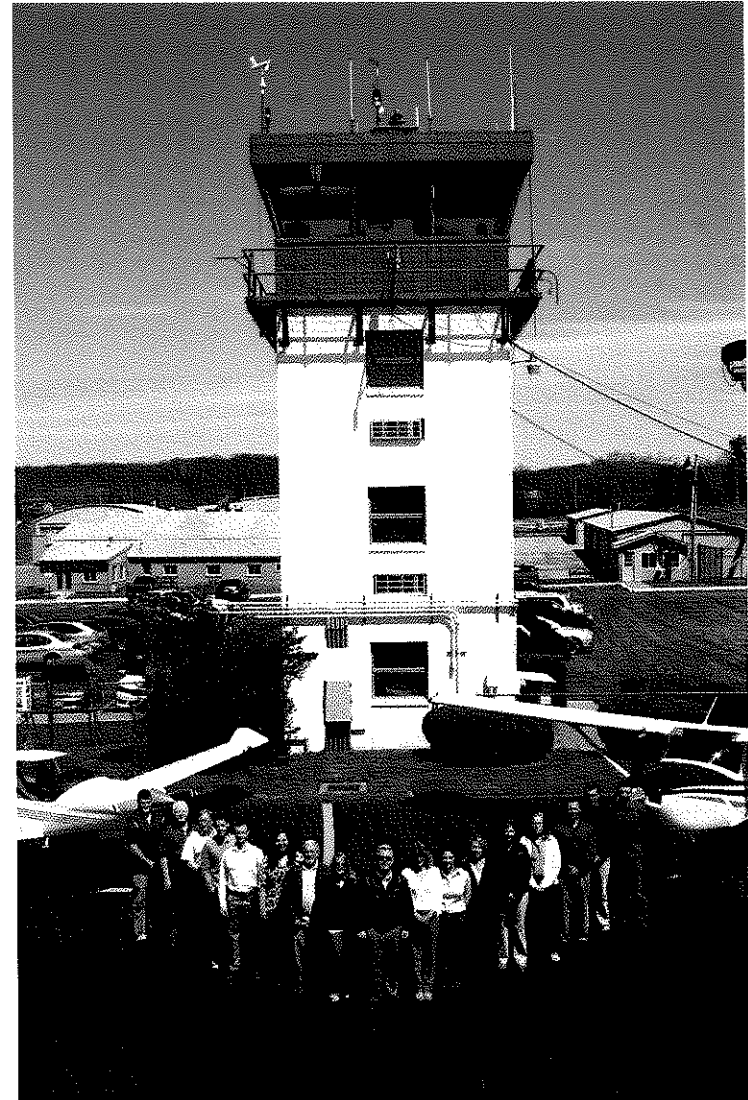
Strategic Master Plan



CCBC Aviation Academy

Overview

- 1. Vision / Mission Statement**
- 2. Attributes / Student Objectives**
- 3. Aviation Programs**
- 4. Aviation Academy Curriculum**
 - a) Academic Courses Available**
 - b) Course Mapping Example**
- 5. Important Topics**
 - a) Start Date / Courses**
 - b) Eligibility**
 - c) Marketing / Sign-up Process**
 - d) Costs / Logistics**

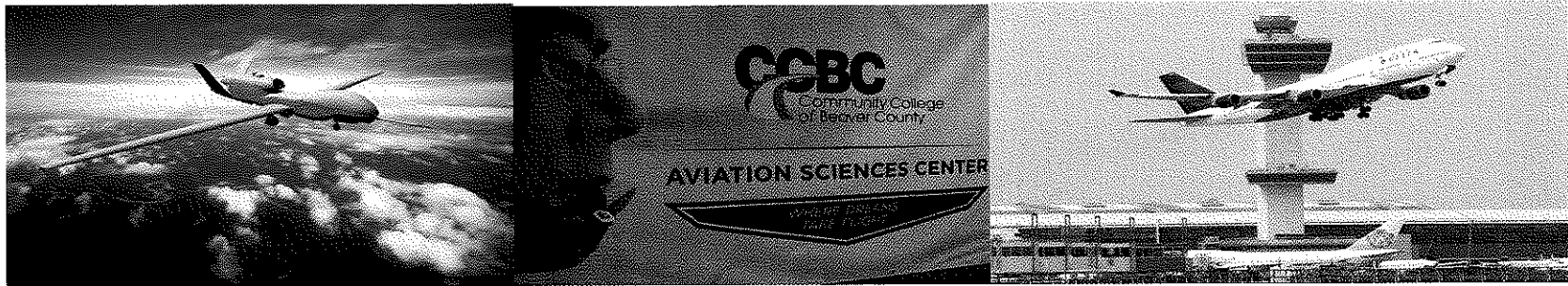


CCBC Aviation Academy

Vision & Mission Statement

Vision

To establish and maintain a culture of aviation and excellence by providing the opportunity for students to pursue their aspirations within the aerospace industry; we emphasize:
Integrity, Professionalism, & Pursuit of Excellence



Mission Statement

Provide a rigorous educational program with an aviation focus that prepares students for unlimited opportunities, including college achievement, career success, and engaged citizenship

CCBC Aviation Academy

Student Objectives

- **Experience Hands-On Instruction From Caring and Dedicated Faculty**
- **Develop Skills In Aviation, Science, Technology, Engineering and Math**
- **Demonstrate Responsibility and Accountability**
- **Thrive In An Environment of Higher Behavioral Expectations**
- **Acquire Skills for Effective Leadership and Life-Long Learning**
- **Jump Start Exciting College Education**
- **Prepare for a Dynamic, Life-long Career in the Aviation Field**



“STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators.”

Francis Eberle, Ph.D., Executive Director for the National Science Teachers Association

CCBC Aviation Academy ***Aviation Programs***



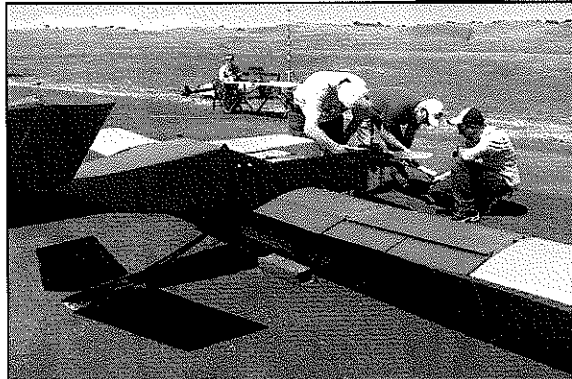
**Air Traffic Control
Enroute**



**Air Traffic Control
Terminal**



Professional Pilot



Unmanned Aerial Vehicles



Aerospace Management

Five Dynamic Aviation Programs with Strong Career Paths

CCBC Aviation Academy

Aviation Curriculum (Courses Available)

Aviation Courses

- **AVIP 101 – Intro to Aviation**
- **AVIP 106 – Private Pilot**
- **AVIP 110 – Flight Theory**
- **AVIP 121 – Aviation Meteorology**
- **AVIP 123 – Aeronautical Knowledge**
- **AVIP 136 – Theory of Instrument Flight**
- **AVIP 150 – Human Factors in Aviation**
- **AVIP 232 – Instrument Flight**
- **AVIC 236 – ATC Procedures**
- **AVIP 240 – Intro to UAV Pilot**

General Courses

- **CIST 100 – Intro to Info Technology**
- **WRIT 101 – English Composition**
- **MATH 130 – College Algebra**
- **LITR 210 – Concepts of Literature**
- **WRIT 103 – Writing for Business & Tech**
- **PHYS 101 – College Physics I**
- **PHYS 105 – Physical Science**
- **ACCT 110 – Financial Accounting**
- **BUSM 112 – Principles of Management**

**Balanced Aviation & General Education Requirements;
Tremendous Flexibility in Course Options**

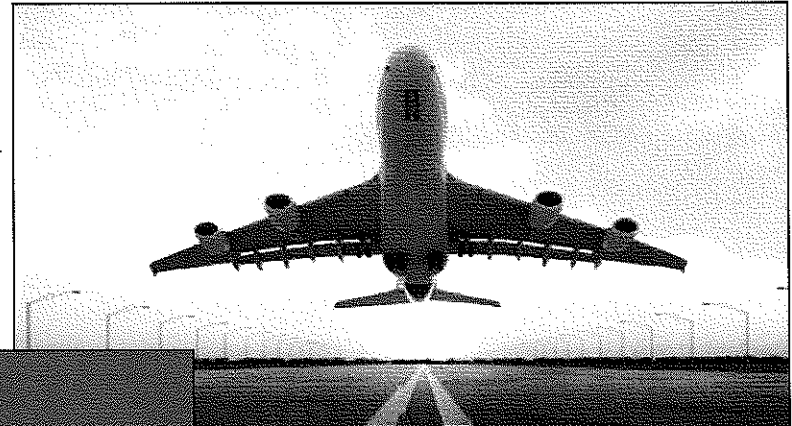
CCBC Aviation Academy

Course Mapping Example

1st Year

- AVIP 101 – Intro to Aviation
- CIST 100 – Intro to Info Tech
- AVIP 110 – Flight Theory
- AVIP 123 – Aero Knowledge

*\$918/semester for
2 courses
No cost for books or
uniforms 1st year*



2nd Year

- AVIP 106 – Private Pilot
- WRIT 101 – English Comp.
- AVIP 236 – ATC Procedures
- MATH 130 – College Algebra

*~\$7500 for Priv.
Pilot License*



3rd Year

- AVIP 121 – Av. Meteorology
- AVIP 136 – Theory of Inst. Flight
- AVIP 232 – Instrument Flight
- LITR 210 – Concepts of Lit

Tremendous Opportunity to Jump Start College Experience

Pro Pilot Career Opportunities

- Boeing/FAA, 20 year forecast
 - 533,000 NEW Commercial Pilots needed worldwide
 - ~90,000 in the United States
 - ~4500/year - military, collegiate & general aviation cannot meet demand
 - This is JUST Airline requirements
 - Corporate, Charter, Military



High Demand



Pro Pilot Career Arc

- 23 – Regional Pilot (\$30K)
- 28 – Major Airline Pilot (\$60-125K)
- 33 – Major Airline Captain (\$150-250K)
- 65 – Mandatory Retirement

42 year Career: Pay/Benefits ~\$11,000,000

ATC Career Opportunities

- **Need qualified Applicants/Personnel for the foreseeable future**
 - **6600 new, fully qualified controllers over the next 5 years**
 - **2 Major suppliers: Collegiate & Military**
 - **CCBC: Premier program in the US**



Controller Career Arc

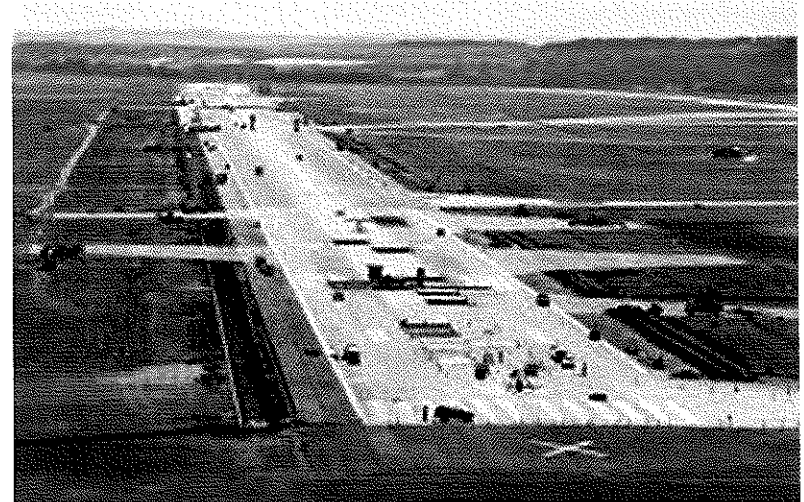
- **Starting Pay Trainee (\$40K)**
- **Upgrading in Field: 3 years (\$55-105K)**
- **Fully Qualified (\$115-180K)**
- **Retirement: immediate pension**

Excellent Pay & Benefits: Constant Demand

Aerospace Management Career Opportunities

Aviation touches many fields of study

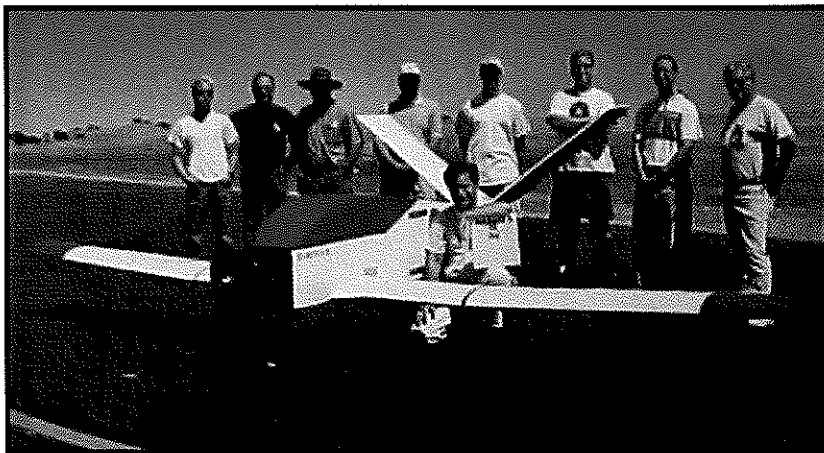
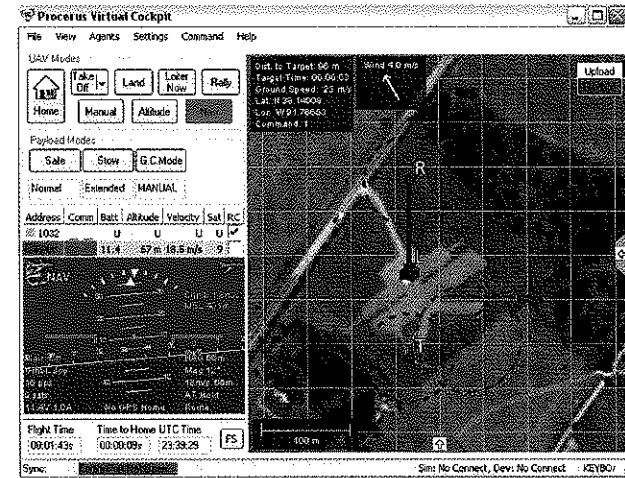
- **As Airlines and Commercial Aviation expands so does the need for professional support and staff**
 - **Engineers - All Fields from Civil to Aeronautical**
 - **Financial – Accountants, Managers**
 - **Lawyers**
 - **Airport designers and planners**
 - **Business ownership**
 - **Construction profession and trades**
 - **Flight Dispatchers**
 - **Security**



Diverse Aviation-linked Career Pathways

UAV Career Opportunities

- **Rapidly expanding industry within the US**
 - **Estimates currently indicate a strongly growing \$15 Billion/year Industry, and \$80 Billion/year Industry by 2025**
 - **FAA approval of commercial drones projected to create 70,000 new US jobs within the next five years, and 100,000 new US jobs by the year 2025**



UAV Pilot Career Arc

- **Starting Pay (\$50K-\$80K)**
- **Mid-level Experience: (\$90K-120K)**
- **Senior Experience: (\$125K-200K)**
- **Excellent Benefit Packages**

Federal, State, Corporate career opportunities



Educational Cost Comparison

CCBC Aviation Programs

- **Associate Degree**
 - Two year, 62/63 Credits
 - Tuition/Fees: ~\$8900
- **SIU Articulation at CCBC**
 - Bachelors Degree
 - 4 year, 120+ Credits
 - Tuition & Fees: ~\$11K/Year
- **Flying costs are additional**
 - Pro Pilot ~\$29,600 (*PA)
 - Private Pilot, Instrument, Commercial

Private Aviation Programs

- **Bachelors Degree**
 - Four year, 120+ Credits
 - Tuition/Fees: ~\$32K/Year
 - Room & Board: ~\$10K/Year
- **Flying costs are additional**
 - Pro Pilot ~\$60K total
 - Private Pilot, Instrument, Commercial

CCBC Total Costs

- Pro Pilot, 4 Year Degree: ~\$60K
- UAV, 4 Year Degree: ~\$45K
- ATC, 2 Year Degree: ~\$17K
- Aero Mgt, 4 Year Degree: ~\$30K

Private Total Costs

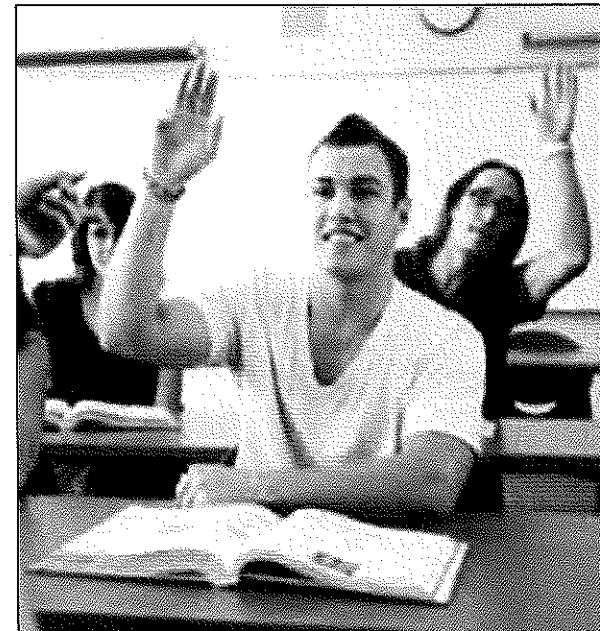
- Pro Pilot, 4 Year Degree: ~\$230K
- UAV, 4 Year Degree: ~\$200K
- ATC, 4 Year Degree: ~\$168K
- Aero Mgt, 4 Year Degree: ~\$168K

Unmatched Value: ~30% Cost of Private Institution

CCBC Aviation Academy

Advantages

- 1. Jump Start College Experience**
- 2. STEM Focus**
- 3. Introduce Dynamic Career Pathways**
- 4. Cost Effective**
- 5. Disciplined Educational Environment**
 - a) Simulators**
 - b) Flying**
 - c) Critical Thinking**



Opportunity to Graduate High School with ~37 College Credits; Private Pilots Certification; and Instrument Rating

CCBC Aviation Academy

Important Topics

- 1. Academy Start Date**
 - a) Spring Semester (20 Jan 15)
 - b) AM / PM Classes
- 2. Student Eligibility**
 - a) 3.0 GPA
 - b) Good Attendance & Conduct
- 3. Marketing / Outreach**
 - a) Principals/Guidance
 - b) Student Assemblies
 - c) Parents / Students Open House
- 4. Costs / Transportation**
 - a) Tuition / Fees / Books
 - b) POVs / Buses
- 5. Student Guidelines**



The Next Step

CCBC Aviation Academy

"We Build Dreams, We Train Professionals"



Discussion