

# Community College of Baltimore County

## AVIATION STUDIES DEPARTMENT INFORMATION PACKET



- Degree & Certificate Programs
- Semester Sequence Schedules
- Course Descriptions
- Financial Aid
- Transfer Programs
- Registration & Application

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**CCBC**

**Community College of Baltimore County**

800 South Rolling Road Baltimore, MD 21228

[www.ccbcmd.edu/aviation](http://www.ccbcmd.edu/aviation)

443-840-4157

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For more information on Flight Training and Air Traffic Control -CTI programs, please see the following:

[CCBC Flight Training Guide](#)

[CCBC Student Flight Training Handbook](#)

[CCBC AT-CTI Handbook](#)



Aviation Studies Department  
School of Applied & Information Technology  
The Community College of Baltimore County  
800 South Rolling Road Baltimore, MD 21228

***DEAR PROSPECTIVE AVIATION STUDENT:***

Thank you for your interest in the Aviation Program at The Community College of Baltimore County - Catonsville Campus! CCBC has been training aviation professionals for over 40 years.

The CCBC Aviation Program offers a variety of courses to meet your needs, whether you are looking to take ground school classes, complete a degree in aviation, or transfer to a four-year aviation college or university.

This program is designed to be flexible to accommodate both non-degree and degree-seeking students. Students wishing to complete an aviation degree may do so one or two courses at a time, or may opt to take classes full-time to earn their degree in minimum time.

This packet contains information about the CCBC Aviation Program, CCBC application & registration, flight training, and careers in aviation. I hope you will find this useful.

We would very much like to meet with you to discuss your goals and identify how the aviation program at CCBC can help you successfully achieve them. To set up an appointment, please call **443-840-4157**.

***Be an early bird!*** Students are strongly encouraged to register for classes as early as possible. Class sizes are limited, and many courses, including aviation classes may not be held every semester!

We look forward to hearing from you!

Sincerely,

A handwritten signature in black ink that reads "Douglas A. Williams".

Douglas A. Williams  
Aviation Program Director  
The Community College of Baltimore County  
dwilliams@ccbcmd.edu

**OVERVIEW**

The Community College of Baltimore County (CCBC) Catonsville campus offers **Associate of Applied Science (A.A.S) degrees to prepare graduates for employment in six (6) distinct aviation professions:**

- Air Traffic Control - Air Traffic Collegiate Training Initiative (CTI)
- Aircraft Dispatcher
- Flight Operations Management
- Professional Pilot - Airplane
- Professional Pilot - Helicopter
- Professional Pilot - Unmanned Aircraft Systems

Aviation Studies includes aeronautics, air transportation science, FAA & government regulations, safety, meteorology, and air traffic control procedures. Internships where students gain valuable experience are available at nearby airports including Baltimore-Washington International Airport (BWI), Martin State Airport (MTN) and Washington National Airport (DCA). Additionally, students will acquire a core knowledge of business operations, computer information systems, economics, management, and technical writing. The program also includes elective courses in social sciences, the arts, and humanities. Students may view the college catalog online by visiting the CCBC website:

<http://www.cbcmd.edu/>

In addition, CCBC offers **Aviation Certificates** in the following disciplines:

- Air Traffic Control
- Aviation Management
- Flight Training
- Flight Attendant

CCBC represents **real value**. CCBC courses are typically one-half to one-third the cost of most four-year college and university courses!

**ACCREDITATION**

CCBC Aviation Degrees & Certificates are accredited by the Middle States Commission on Higher Education. The Flight Training courses are approved under Federal Aviation Administration (FAA) regulations part 141. CCBC's Air Traffic Controller training program is one of only 30 colleges and universities approved under the FAA Air Traffic Collegiate Training Initiative (CTI). CCBC Aviation Program Faculty serve in leadership positions in the University Aviation Association and the Association of Collegiate Training Institutions.

### TRANSFER TO FOUR YEAR COLLEGES AND UNIVERSITIES

If you are interested in ultimately earning a four-year degree, completing your first two years at CCBC **could save you thousands of dollars!** Most four-year aviation colleges and universities will accept 60–80 credits earned from CCBC.

CCBC is a member of the University Aviation Association and credits earned at CCBC transfer to most aviation colleges, however, students are encouraged to check in advance with the four-year college to ensure credits will transfer successfully.

CCBC enjoys established transfer agreements (meaning **all** CCBC credits will be accepted) with several local, four year colleges and universities that offer Bachelor of Science (B.S.) degrees in Aviation Management, Professional Pilot, Professional Aeronautics, and more!

### TRANSFER TO THE UNIVERSITY OF MARYLAND

CCBC has a partnership agreement with the University of Maryland, Eastern Shore (UMES) program located in Princess Anne, Maryland. Under this program, students may earn a Bachelor of Science (B.S.) degree in Professional Pilot Training or Aviation Management. **NOTE:** Students must carefully follow the UMES direct transfer curriculum. For more information please contact the UMES Aviation Department: 410-651-6365.

### TRANSFER TO EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

CCBC also has a partnership agreement with Embry-Riddle Aeronautical University (ERAU) located at Andrews Air Force Base, Maryland. Under this program, students may earn a Bachelor of Science (B.S.) degree in Professional Aeronautics. This program is extremely flexible and offers accelerated and online courses. For more information call ERAU at Andrews AFB: 301-735-6340.

### STATEWIDE PROGRAM

Because the CCBC Aviation program is a unique, one of a kind program in the State of Maryland serving a regional population, students residing in Maryland are charged a differential rate between Baltimore County rates and Out of County rates for courses specified in the Aviation Studies degree curricula.

**NOTE: In order to qualify for in-county rates, you must indicate that you are degree seeking on your application, however, this does not obligate you to complete the degree.**

Students living outside Baltimore County who are seeking a CCBC aviation degree may elect to attend non-aviation courses at a community college in their area for convenience and lower costs. Credits are generally transferable from college to college in the State of Maryland.

**AIR TRAFFIC CONTROL - COLLEGIATE TRAINING INITIATIVE (CTI)**

The Air Traffic Control - CTI degree is specifically designed to prepare students for employment as Air Traffic Control Specialists working in airport control towers, Terminal Radar Approach Control (TRACON) facilities, and Air Route Traffic Control Centers (ARTCC). Most of these positions are with the Federal Government, and individuals will be required to pass an FAA Class II medical evaluation.

This is an FAA Collegiate Training Initiative (CTI) program. Graduates will have the required knowledge and skills to be competitive for employment in the FAA Air Traffic Controller workforce.

\*\*\* Students considering enrolling in this program should review the [CCBC AT-CTI Handbook](#)

**Air Traffic Control - Collegiate Training Initiative (CTI) Curriculum:**

Credits:

**General Education Requirements:**

CMNS 101	Fundamentals of Communication	3
ENGL 101	College Composition I	3
ERSC 131	Meteorology	4

**General Education Electives** (one course must be a qualified Diversity course)

[See online college catalog for approved courses](#)

Information Technology	3
Mathematics	3-4
Social & Behavioral Sciences	3

**Program Requirements:**

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 143	VFR Flight Operations	2
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 221	The Air Traffic Control System	3
AVMT 226	Air Traffic Control Operations I	3
AVMT 227	Air Traffic Control Operations II	3
AVMT 228	Air Traffic Control Operations III	3
AVMT 229	Air Traffic Control Operations IV	3
AVMT 230	Air Traffic Control Operations V	3
AVMT 241	Instrument Pilot Ground School	4
AVMT 243	IFR Flight Operations	1
AVMT 251	Airport Management	3
AVMT 256	Airline Management	3
ENGL 102	College Composition II <b>OR</b>	3
ENGL/MNGT 239	Business Communications	

**Required for A.A.S. Degree:**

65-66

## AIR TRAFFIC CONTROL - COURSE SEQUENCE SCHEDULE

Required course sequence for CTI students who start in the fall or spring semesters to ensure completion in minimum time. Students transferring from other colleges and universities may deviate from this sequence.

### TRACK A FALL SEMESTER START

#### Semester I - Fall (Sep - Dec) - 17 credits

AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 143	VFR Flight Operations
ENGL 101	College Composition I
GEN ED - ELECTIVE	MATH - Mathematics
GEN ED - ELECTIVE	Information Technology

#### Short Term I - Winter (Jan) - 3 credits

CMNS 101	Fundamentals of Communication
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#### Semester II - Spring (Feb - May) - 15 credits

AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 243	IFR Flight Operations
ERSC 131	Meteorology

#### Short Term II - Summer (Jun - Aug) - 3 credits

AVMT 211	Air Transportation
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#### Semester III - Fall (Sep - Dec) - 15 credits

AVMT 216	Aviation Safety
* AVMT 227	Air Traffic Control Operations II
AVMT 251	Airport Management
GEN ED - ELECTIVE	Social & Behavioral Sciences
PROGRAM ELECTIVE	ENGL 102 - College Composition II <b>or</b> ENGL/MNGT 239 - Business Communications

#### Short Term III - Winter (Jan) - 0 credits

AS NEEDED

#### Semester IV - Spring (Feb - May) - 12 credits

AVMT 228	Air Traffic Control Operations III
AVMT 229	Air Traffic Control Operations IV
AVMT 230	Air Traffic Control Operations V
AVMT 256	Airline Management

### TRACK B SPRING SEMESTER START

#### Semester I - Spring (Feb - May) - 17 credits

AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 143	VFR Flight Operations
ENGL 101	College Composition I
GEN ED - ELECTIVE	MATH - Mathematics
GEN ED - ELECTIVE	Information Technology

#### Short Term I - Summer (Jun - Aug) - 3 credits

AVMT 211	Air Transportation
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#### Semester II - Fall (Sep - Dec) - 15 credits

AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 243	IFR Flight Operations
ERSC 131	Meteorology

#### Short Term II - Winter (Jan) - 3 credits

CMNS 101	Fundamentals of Communication
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#### Semester III - Spring (Feb - May) - 15 credits

AVMT 216	Aviation Safety
* AVMT 227	Air Traffic Control Operations II
AVMT 251	Airport Management
GEN ED - ELECTIVE	Social & Behavioral Sciences
PROGRAM ELECTIVE	ENGL 102 - College Composition II <b>or</b> ENGL/MNGT 239 - Business Communications

#### Short Term III - Summer (Jun - Aug) - 0 credits

AS NEEDED

#### Semester IV - Fall (Sep - Dec) - 12 credits

AVMT 228	Air Traffic Control Operations III
AVMT 229	Air Traffic Control Operations IV
AVMT 230	Air Traffic Control Operations V
AVMT 256	Airline Management

\* Courses with associated lab fees - see *Course Descriptions*, pages 17-21

**AIRCRAFT DISPATCHER**

Aircraft Dispatchers are responsible for various aspects of flight planning, including flight routing, weather forecasting, aircraft performance and loading, fuel calculations, and the scheduling of aircrew and aircraft. These professionals typically work in a flight operations center and perform flight following to provide assistance to pilots if weather conditions or other criteria necessitate route changes. Aircraft dispatching is a rapidly expanding field with excellent employment prospects.

The Aircraft Dispatcher degree prepares students for employment as airline or corporate aircraft dispatchers, cargo operations and fixed base operator (FBO) management. Careers are also available with the Federal Aviation Administration (FAA), National Transportation Safety Board (NTSB), Department of Transportation (DOT) and other government agencies.

**Aircraft Dispatcher Curriculum:**

Credits:

**General Education Requirements:**

CMNS 101	Fundamentals of Communication	3
ENGL 101	College Composition I	3
ERSC 131	Meteorology	4

**General Education Electives** (one course must be a qualified Diversity course)

[See online college catalog for approved courses](#)

Information Technology	3
Mathematics	3-4
Social & Behavioral Sciences	3

**Program Requirements:**

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 143	VFR Flight Operations	2
AVMT 201	Aviation Meteorology	4
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 221	The Air Traffic Control System	3
AVMT 226	Air Traffic Control Operations I	3
AVMT 241	Instrument Pilot Ground School	4
AVMT 246	Commercial Pilot Ground School	4
AVMT 251	Airport Management	3
AVMT 256	Airline Management	3
AVMT 258	Aircraft Dispatcher	3

**Required for A.A.S. Degree:**

60-61



## AIRCRAFT DISPATCHER - COURSE SEQUENCE SCHEDULE

Required course sequence for students who start in the fall or spring semesters to ensure completion in minimum time. Students transferring from other colleges and universities may deviate from this sequence.

### TRACK A FALL SEMESTER START

#### Semester I - Fall (Sep - Dec) - 17 credits

AVMT 101 Aviation History & Development  
 AVMT 141 Private Pilot Ground School  
 \* AVMT 143 VFR Flight Operations  
 ENGL 101 College Composition I  
 GEN ED - MATH - Mathematics  
 ELECTIVE

#### Short Term I - Winter (Jan) - 3 credits

CMNS 101 Fundamentals of Communication

#### Semester II - Spring (Feb - May) - 14 credits

AVMT 221 The Air Traffic Control System  
 AVMT 226 Air Traffic Control Operations I  
 AVMT 241 Instrument Pilot Ground School  
 ERSC 131 Meteorology

#### Short Term II - Summer (Jun - Aug) - 3 credits

AVMT 211 Air Transportation

#### Semester III - Fall (Sep - Dec) - 16 credits

AVMT 201 Aviation Meteorology  
 AVMT 216 Aviation Safety  
 AVMT 251 Airport Management  
 GEN ED - Information Technology  
 ELECTIVE

#### Short Term III - Winter (Jan) - 0 credits

AS NEEDED

#### Semester IV - Spring (Feb - May) - 12 credits

AVMT 246 Commercial Pilot Ground School  
 AVMT 256 Airline Management  
 \* AVMT 258 Aircraft Dispatcher  
 GEN ED - Social & Behavioral Sciences  
 ELECTIVE

### TRACK B SPRING SEMESTER START

#### Semester I - Spring (Feb - May) - 17 credits

AVMT 101 Aviation History & Development  
 AVMT 141 Private Pilot Ground School  
 \* AVMT 143 VFR Flight Operations  
 ENGL 101 College Composition I  
 GEN ED - MATH - Mathematics  
 ELECTIVE

#### Short Term I - Summer (Jun - Aug) - 3 credits

AVMT 211 Air Transportation

#### Semester II - Fall (Sep - Dec) - 14 credits

AVMT 221 The Air Traffic Control System  
 AVMT 226 Air Traffic Control Operations I  
 AVMT 241 Instrument Pilot Ground School  
 ERSC 131 Meteorology

#### Short Term II - Winter (Jan) - 3 credits

CMNS 101 Fundamentals of Communication

#### Semester III - Spring (Feb - May) - 16 credits

AVMT 201 Aviation Meteorology  
 AVMT 216 Aviation Safety  
 AVMT 251 Airport Management  
 GEN ED - Information Technology  
 ELECTIVE

#### Short Term III - Summer (Jun - Aug) - 0 credits

AS NEEDED

#### Semester IV - Fall (Sep - Dec) - 12 credits

AVMT 246 Commercial Pilot Ground School  
 AVMT 256 Airline Management  
 \* AVMT 258 Aircraft Dispatcher  
 GEN ED - Social & Behavioral Sciences  
 ELECTIVE

\* Courses with associated lab fees - see *Course Descriptions*, pages 17-21

**FLIGHT OPERATIONS MANAGEMENT DEGREE**

Aviation management is a rapidly expanding field with excellent employment prospects. These professionals are largely responsible for the development, planning, operation, and marketing functions of the aviation industry.

The Flight Management Degree prepares students for employment in various business-related aviation career fields, including airport or airline management, airline dispatcher, cargo operations, and fixed base operator (FBO) management. Careers are also available with the Federal Aviation Administration (FAA), National Transportation Safety Board (NTSB) Department of Transportation (DOT) and other government agencies.

Flight Management focuses on business administration, accounting, marketing, airport and airline operations. Please see the **Aviation Careers** link for more information on working conditions and employment prospects.

**Flight Operations Management Curriculum:**

Credits:

**General Education Requirements:**

CMNS 101	Fundamentals of Communication	3
ENGL 101	College Composition I	3
ERSC 131	Meteorology	4

**General Education Electives** (one course must be a qualified Diversity course)

[See online college catalog for approved courses](#)

Information Technology	3
Mathematics	3-4
Social & Behavioral Sciences	3

**Program Requirements:**

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 221	The Air Traffic Control System	3
AVMT 226	Air Traffic Control Operations I	3
AVMT 251	Airport Management	3
AVMT 256	Airline Management	3
ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
ENGL 102	College Composition II <b>OR</b>	3
ENGL/MNGT 239	Business Communications	
MNGT 101	Introduction to Business	3
MNGT 201	Human Resource Management	3

**Program Electives:**

AVMT, ACCT, MNGT, CINS, ECON, or PHYS	3
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**Required for A.A.S. Degree:** 61

## FLIGHT OPERATIONS MANAGEMENT - COURSE SEQUENCE SCHEDULE

### TRACK A FALL SEMESTER START

<b>Semester I - Fall (Sep - Dec) - 15 credits</b>	
AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
ENGL 101	College Composition I
GEN ED - ELECTIVE	MATH 135 or MATH 163

<b>Short Term I - Winter (Jan) - 3 credits</b>	
CMNS 101	Fundamentals of Communication

<b>Semester II - Spring (Feb - May) - 16 credits</b>	
ACCT 101	Principles of Accounting I
AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
ERSC 131	Meteorology
MNGT 101	Introduction to Business

<b>Short Term II - Summer (Jun - Aug) - 3 credits</b>	
AVMT 211	Air Transportation

<b>Semester III - Fall (Sep - Dec) - 16 credits</b>	
ACCT 102	Principles of Accounting II
AVMT 216	Aviation Safety
AVMT 251	Airport Management
PROGRAM ELECTIVE	ENGL 102 - College Composition II <b>or</b> ENGL/MNGT 239 - Business Communications

<b>Short Term III - Winter (Jan) - 0 credits</b>	
NONE	

<b>Semester IV - Spring (Feb - May) - 15 credits</b>	
AVMT 256	Airline Management
PROGRAM ELECTIVE	3-credit: AVMT, ACCT, MNGT, CINS, ECON, OFAD, or PHYS
MNGT 201	Human Resource Management
GEN ED - ELECTIVE	Information Technology
GEN ED - ELECTIVE	Social & Behavioral Sciences

### TRACK B SPRING SEMESTER START

<b>Semester I - Spring (Feb - May) - 15 credits</b>	
AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
ENGL 101	College Composition I
GEN ED - ELECTIVE	MATH 135 or MATH 163

<b>Short Term I - Summer (Jun - Aug) - 3 credits</b>	
AVMT 211	Air Transportation

<b>Semester II - Fall (Sep - Dec) - 16 credits</b>	
ACCT 101	Principles of Accounting I
AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
ERSC 131	Meteorology
MNGT 101	Introduction to Business

<b>Short Term II - Winter (Jan) - 3 credits</b>	
CMNS 101	Fundamentals of Communication

<b>Semester III - Spring (Feb - May) - 16 credits</b>	
ACCT 102	Principles of Accounting II
AVMT 216	Aviation Safety
AVMT 251	Airport Management
PROGRAM ELECTIVE	ENGL 102 - College Composition II <b>or</b> ENGL/MNGT 239 - Business Communications

<b>Short Term III - Summer (Jun - Aug) - 0 credits</b>	
NONE	

<b>Semester IV - Fall (Sep - Dec) - 15 credits</b>	
AVMT 256	Airline Management
PROGRAM ELECTIVE	3-credit: AVMT, ACCT, MNGT, CINS, ECON, OFAD, or PHYS
MNGT 201	Human Resource Management
GEN ED - ELECTIVE	Information Technology
GEN ED - ELECTIVE	Social & Behavioral Sciences

**PROFESSIONAL PILOT - AIRPLANE DEGREE**

Graduates of the Professional Pilot Airplane degree will have completed all academic training required for the Commercial Pilot (Airplane) certificates and Flight Instructor certificates if desired. Pilots with a Commercial Pilot certificate may find employment with regional and major airlines, corporate flight departments, charter or cargo operators, agricultural flying, flight schools, or with a government agency or military service. Non-flying positions are also available with the Federal Aviation Administration or other federal, state, and local aviation agencies. Pilots must meet FAA medical standards. Students considering the Professional Pilot degree programs should read the following:

[CCBC Flight Training Guide](#)

[CCBC Student Pilot Handbook](#)

**Professional Pilot Airplane Curriculum:**

Credits:

**General Education Requirements:**

CMNS 101	Fundamentals of Communication	3
ENGL 101	College Composition I	3
ERSC 131	Meteorology	4

**General Education Electives (one course must be a qualified Diversity course)**

[See online college catalog for approved courses](#)

Information Technology	3
Mathematics	3-4
Social & Behavioral Sciences	3

**Program Requirements:**

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 142	Private Pilot Certification - Airplane	3
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 221	The Air Traffic Control System	3
AVMT 226	Air Traffic Control Operations I	3
AVMT 241	Instrument Pilot Ground School	4
AVMT 242	Instrument Pilot Rating - Airplane	3
AVMT 246	Commercial Pilot Ground School	4
AVMT 247	Commercial Pilot Certification - Airplane SE & ME	3

**Program Electives: Choose 12 credits from the following courses:**

AVMT 251	Airport Management	3
AVMT 256	Airline Management	3
AVMT 261	Certified Flight Instructor Airplane	3
AVMT 263	Certified Flight Instructor Instrument Airplane	3
AVMT 265	Certified Flight Instructor Multi-Engine Airplane	3
ENGL 102	College Composition II <b>OR</b>	3
ENGL/MNGT 239	Business Communications	

**Required for A.A.S. Degree:** 66-67

443-840-4157

## PROFESSIONAL PILOT AIRPLANE - COURSE SEQUENCE SCHEDULE

This is a recommended schedule for Flight Training students who start in the fall or spring semesters and wish to complete their training in minimum time. Students transferring to CCBC with credits from other colleges and universities may have to deviate from this sequence.

### TRACK A FALL SEMESTER START

Semester I - Fall (Sep - Dec) - 18 credits	
AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 142	Private Pilot Certification - Airplane
ENGL 101	College Composition I
GEN ED - ELECTIVE	MATH - Mathematics

Short Term I - Winter (Jan) - 3 credits	
CMNS 101	Fundamentals of Communication

Semester II - Spring (Feb - May) - 17 credits	
AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 242	Instrument Pilot Rating - Airplane
ERSC 131	Meteorology

Short Term II - Summer (Jun - Aug) - 3 credits	
AVMT 211	Air Transportation

Semester III - Fall (Sep - Dec) - 16 credits	
AVMT 216	Aviation Safety
AVMT 246	Commercial Pilot Ground School
* AVMT 247	Commercial Pilot Certification - Airplane SE & ME
GEN ED - ELECTIVE	Social & Behavioral Sciences
GEN ED - ELECTIVE	Information Technology

Short Term III - Winter (Jan) - 0 credits	
NONE	

Semester IV - Spring (Feb - May) - 12 credits	
PROGRAM	Select 12 credits from the list of
ELECTIVES	approved Program Electives courses

### TRACK B SPRING SEMESTER START

Semester I - Spring (Feb - May) - 18 credits	
AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 142	Private Pilot Certification
ENGL 101	College Composition I
GEN ED - ELECTIVE	MATH - Mathematics

Short Term I - Summer (Jun - Aug) - 3 credits	
AVMT 211	Air Transportation

Semester II - Fall (Sep - Dec) - 17 credits	
AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 242	Instrument Pilot Rating - Airplane
ERSC 131	Meteorology

Short Term II - Winter (Jan) - 3 credits	
CMNS 101	Fundamentals of Communication

Semester III - Spring (Feb - May) - 16 credits	
AVMT 216	Aviation Safety
AVMT 246	Commercial Pilot Ground School
* AVMT 247	Commercial Pilot Certification - Airplane SE & ME
GEN ED - ELECTIVE	Social & Behavioral Sciences
GEN ED - ELECTIVE	Information Technology

Short Term III - Summer (Jun - Aug) - 0 credits	
NONE	

Semester IV - Fall (Sep - Dec) - 12 credits	
PROGRAM	Select 12 credits from the list of
ELECTIVES	approved Program Electives courses

\* Courses with associated lab fees - see *Course Descriptions*, pages 17-21

**PROFESSIONAL PILOT - HELICOPTER DEGREE**

Graduates of the Professional Pilot Helicopter degree program will have completed all academic training required for the Commercial Pilot (Helicopter) and flight instructor certificates. Pilots with a rotorcraft (helicopter) Commercial Pilot Certificate and/or instructor credentials may find employment in a variety of helicopter applications such as corporate flight operations, charter or cargo airlift, agricultural services, surveying, law enforcement, search and rescue, on-demand media, emergency medical evacuation, flight training, or with numerous government agencies or military services. Non-flying positions are also available with the Federal Aviation Administration or other federal, state and local aviation agencies. Pilots must meet FAA medical standards. Students considering the Professional Pilot degree programs should read the following:

[CCBC Flight Training Guide](#)

[CCBC Student Pilot Handbook](#)

**Professional Pilot Helicopter Curriculum:**

Credits:

**General Education Requirements:**

CMNS 101	Fundamentals of Communication	3
ENGL 101	College Composition I	3
ERSC 131	Meteorology	4

**General Education Electives (one course must be a qualified Diversity course)**

[See online college catalog for approved courses](#)

Information Technology	3
Mathematics	3-4
Social & Behavioral Sciences	3

**Program Requirements:**

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 144	Private Pilot Certification - Helicopter	3
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 221	The Air Traffic Control System	3
AVMT 226	Air Traffic Control Operations I	3
AVMT 241	Instrument Pilot Ground School	4
AVMT 244	Instrument Pilot Rating - Helicopter	3
AVMT 246	Commercial Pilot Ground School	4
AVMT 248	Commercial Pilot Certification - Helicopter	3

**Program Electives: Choose 12 credits from the following courses:**

AVMT 251	Airport Management	3
AVMT 256	Airline Management	3
AVMT 262	Certified Flight Instructor Helicopter	3
AVMT 264	Certified Flight Instructor Instrument Helicopter	3
ENGL 102	College Composition II <b>OR</b>	3
ENGL/MNGT 239	Business Communications	

**Required for A.A.S. Degree:**

66-67

## PROFESSIONAL PILOT HELICOPTER - COURSE SEQUENCE SCHEDULE

This is a recommended schedule for Flight Training students who start in the fall or spring semesters and wish to complete their training in minimum time. Students transferring to CCBC with credits from other colleges and universities may have to deviate from this sequence.

### TRACK A FALL SEMESTER START

Semester I - Fall (Sep - Dec) - 18 credits	
AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 144	Private Pilot Certification - Helicopter
ENGL 101	College Composition I
GEN ED -	MATH - Mathematics

Short Term I - Winter (Jan) - 3 credits	
CMNS 101	Fundamentals of Communication

Semester II - Spring (Feb - May) - 17 credits	
AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 244	Instrument Pilot Rating - Helicopter
ERSC 131	Meteorology

Short Term II - Summer (Jun - Aug) - 3 credits	
AVMT 211	Air Transportation

Semester III - Fall (Sep - Dec) - 16 credits	
AVMT 216	Aviation Safety
AVMT 246	Commercial Pilot Ground School
* AVMT 248	Commercial Pilot Certification - Helicopter
GEN ED -	Social & Behavioral Sciences
GEN ED -	Information Technology

Short Term III - Winter (Jan) - 0 credits	
NONE	

Semester IV - Spring (Feb - May) - 12 credits	
PROGRAM	Select 12 credits from the list of
ELECTIVES	approved Program Electives courses

### TRACK B SPRING SEMESTER START

Semester I - Spring (Feb - May) - 18 credits	
AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 144	Private Pilot Certification - Helicopter
ENGL 101	College Composition I
GEN ED -	MATH - Mathematics

Short Term I - Summer (Jun - Aug) - 3 credits	
AVMT 211	Air Transportation

Semester II - Fall (Sep - Dec) - 17 credits	
AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 244	Instrument Pilot Rating - Helicopter
ERSC 131	Meteorology

Short Term II - Winter (Jan) - 3 credits	
CMNS 101	Fundamentals of Communication

Semester III - Spring (Feb - May) - 16 credits	
AVMT 216	Aviation Safety
AVMT 246	Commercial Pilot Ground School
* AVMT 248	Commercial Pilot Certification - Helicopter
GEN ED -	Social & Behavioral Sciences
GEN ED -	Information Technology

Short Term III - Summer (Jun - Aug) - 0 credits	
NONE	

Semester IV - Fall (Sep - Dec) - 12 credits	
PROGRAM	Select 12 credits from the list of
ELECTIVES	approved Program Electives courses

\* Courses with associated lab fees - see *Course Descriptions*, pages 17-21

**PROFESSIONAL PILOT - UNMANNED AIRCRAFT SYSTEMS (UAS)**

Graduates of the Professional UAS Pilot degree program will have completed all academic training required for the commercial pilot airplane certificate with specialized training in UAS operations. Pilots with this training may find employment with a growing number of UAS business and public service applications including surveying & mapping, on-demand media, search and rescue, law enforcement, aerial delivery or with numerous government agencies or military services. Non-flying positions are also available with the Federal Aviation Administration or other federal, state and local aviation agencies. Pilots must meet FAA medical standards. Students considering the Professional Pilot degree programs should read the following:

[CCBC Flight Training Guide](#)

[CCBC Student Pilot Handbook](#)

**Professional Pilot UAS Curriculum:**

Credits:

**General Education Requirements:**

CMNS 101	Fundamentals of Communication	3
ENGL 101	College Composition I	3
ERSC 131	Meteorology	4

**General Education Electives** (one course must be a qualified Diversity course)

[See online college catalog for approved courses](#)

Information Technology	3
Mathematics	3-4
Social & Behavioral Sciences	3

**Program Requirements:**

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 142	Private Pilot Certification - Airplane	3
AVMT 161	Unmanned Aircraft Systems	3
AVMT 162	UAS Flight Training	3
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 221	The Air Traffic Control System	3
AVMT 226	Air Traffic Control Operations I	3
AVMT 241	Instrument Pilot Ground School	4
AVMT 242	Instrument Pilot Rating - Airplane	3
AVMT 246	Commercial Pilot Ground School	4
AVMT 249	Commercial Pilot Certification - Airplane SE	3
AVMT 251	Airport Management	3
AVMT 256	Airline Management	3

**Required for A.A.S. Degree:** 66-67



## PROFESSIONAL PILOT UAS - COURSE SEQUENCE SCHEDULE

This is a recommended schedule for Flight Training students who start in the fall or spring semesters and wish to complete their training in minimum time. Students transferring to CCBC with credits from other colleges and universities may have to deviate from this sequence.

### TRACK A FALL SEMESTER START

#### Semester I - Fall (Sep - Dec) - 18 credits

AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 142	Private Pilot Certification - Airplane
ENGL 101	College Composition I
GEN ED -	MATH - Mathematics
ELECTIVE	

#### Short Term I - Winter (Jan) - 3 credits

CMNS 101	Fundamentals of Communication
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#### Semester II - Spring (Feb - May) - 17 credits

AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 242	Instrument Pilot Rating - Airplane
ERSC 131	Meteorology

#### Short Term II - Summer (Jun - Aug) - 3 credits

AVMT 211	Air Transportation
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#### Semester III - Fall (Sep - Dec) - 16 credits

AVMT 216	Aviation Safety
AVMT 246	Commercial Pilot Ground School
* AVMT 249	Commercial Pilot Certification - Airplane SE
AVMT 251	Airport Management
GEN ED -	Information Technology
ELECTIVE	

#### Short Term III - Winter (Jan) - 0 credits

NONE	
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#### Semester IV - Spring (Feb - May) - 12 credits

AVMT 161	Unmanned Aircraft Systems
* AVMT 162	UAS Flight Training
AVMT 256	Airline Management
GEN ED -	Social & Behavioral Sciences
ELECTIVE	

### TRACK B SPRING SEMESTER START

#### Semester I - Spring (Feb - May) - 18 credits

AVMT 101	Aviation History & Development
AVMT 141	Private Pilot Ground School
* AVMT 142	Private Pilot Certification - Airplane
ENGL 101	College Composition I
GEN ED -	MATH - Mathematics
ELECTIVE	

#### Short Term I - Summer (Jun - Aug) - 3 credits

AVMT 211	Air Transportation
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#### Semester II - Fall (Sep - Dec) - 17 credits

AVMT 221	The Air Traffic Control System
AVMT 226	Air Traffic Control Operations I
AVMT 241	Instrument Pilot Ground School
* AVMT 242	Instrument Pilot Rating - Airplane
ERSC 131	Meteorology

#### Short Term II - Winter (Jan) - 3 credits

CMNS 101	Fundamentals of Communication
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#### Semester III - Spring (Feb - May) - 16 credits

AVMT 216	Aviation Safety
AVMT 246	Commercial Pilot Ground School
* AVMT 249	Commercial Pilot Certification - Airplane SE
AVMT 251	Airport Management
GEN ED -	Information Technology
ELECTIVE	

#### Short Term III - Summer (Jun - Aug) - 0 credits

NONE	
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#### Semester IV - Fall (Sep - Dec) - 12 credits

AVMT 161	Unmanned Aircraft Systems
* AVMT 162	UAS Flight Training
AVMT 256	Airline Management
GEN ED -	Social & Behavioral Sciences
ELECTIVE	

\* Courses with associated lab fees - see *Course Descriptions*, pages 17-21

## AVIATION CERTIFICATE PROGRAMS

Aviation Certificates are designed for individuals who wish to expand their knowledge and credentials in the field of aviation but do not want a degree. This includes people currently employed in aviation or who already have a degree in another discipline. CCBC degree-seeking students are also eligible to earn these certificates.

### AIR TRAFFIC CONTROL CERTIFICATE

Credits:

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 221	The Air Traffic Control System	3
AVMT 226	Air Traffic Control Operations I	3

**Required for Certificate:** 18

### FLIGHT ATTENDANT CERTIFICATE

The Flight Attendant Certificate may be completed in one semester. A degree is generally not required for employment as a Flight Attendant.

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 151	Flight Attendant Fundamentals	3
HLTH 140	First Aid & Personal Safety	3

**Required for Certificate:** 12

### AVIATION MANAGEMENT CERTIFICATE

AVMT 101	Aviation History & Development	3
AVMT 141	Private Pilot Ground School	3
AVMT 211	Air Transportation	3
AVMT 216	Aviation Safety	3
AVMT 251	Airport Management	3
AVMT 256	Airline Management	3

**Required for Certificate:** 18

### COMMERCIAL PILOT FLIGHT TRAINING CERTIFICATE

AVMT 141	Private Pilot Ground School	3
AVMT 142	Private Pilot Certification - Airplane	3
AVMT 241	Instrument Pilot Ground School	4
AVMT 242	Instrument Pilot Rating - Airplane	3
AVMT 246	Commercial Pilot Ground School	4
AVMT 247	Commercial Pilot Certification - Airplane SE & ME	3

**Required for Certificate:** 20

## AVIATION COURSE DESCRIPTIONS

**Note:** some courses have prerequisites. Please refer to the college catalog for more information. You may view the college catalog online by visiting the CCBC web site: <http://www.ccbcmd.edu/>

**AVMT 101 - 3 credits - Aviation History and Development** explores the evolution of aviation, focusing on the rapid growth of the aviation industry and its influence on economic, military, and political advancement. Progressive developments in aircraft design, aerodynamics, powerplants, government agencies, and the national airspace system will be related.

**AVMT 141 - 3 credits - Private Pilot Ground School** provides all required ground instruction for the Private Pilot Certificate. Upon successful completion of this course, students will receive an endorsement to take the FAA Private Pilot knowledge examination. Topics discussed in this course include: aerodynamics, flight theory, aircraft systems, powerplants, aircraft control and operation, safety, communications, airspace, navigation, weight & balance, meteorology, FAA regulations, flight physiology, Crew Resource Management, (CRM), and aircraft performance.

**AVMT 142 - 3 credits - Private Pilot Certification - Airplane** completion of the Private Pilot Certificate through academic, flight and simulator training. Instruction includes preflight procedures, airport operations, takeoffs, landings, go-arounds, performance maneuvers, ground reference maneuvers, navigation, slow flight and stalls, basic instrument maneuvers, emergency procedures, night flying operations, safety, and post-flight procedures.

**Flight lab fee - \$ 13,500**

**AVMT 143 - 3 credits - VFR Flight Operations** provides an introduction to pilot operations for non-pilots. Instruction includes preflight procedures, airport operations, takeoffs, landings, go-arounds, navigation, communications, instrument flight, emergency procedures, night flying operations, safety, and post-flight procedures.

**Flight lab fee - \$ 2,700.**

**AVMT 144 - 3 credits - Private Pilot Certification - Helicopter** provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Private Pilot Certificate, Helicopter class. Topics include preflight procedures, airport and heliport operations, takeoffs and landings, performance and hovering maneuvers, navigation, basic instrument maneuvers, emergency procedures, night flying operations, safety, and postflight procedures. **Flight lab fee - \$ 22,500.**

**AVMT 145 - 3 credits - Specialized Flight Training I** provides tailored flight, simulator and academic training towards a certificate, rating, or transition to advanced aircraft types. **Flight lab fee - \$ 6,000**

**AVMT 151 - 3 credits - Flight Attendant Fundamentals** provides an introduction to flight attendant procedures and operations. Topics include the use of aircraft safety equipment, Federal Aviation Administration (FAA) regulations, passenger cabin procedures, human factors, passenger care and management, conflict resolution, and crew resource management.

**AVMT 161 - 3 credits - Unmanned Aircraft Systems** presents an overview of Unmanned Aircraft Systems (UAS) including the history and development of UAS, Remotely Piloted Aircraft (RPA), UAS types, payloads and employment, control functions, flight operations, regulations, and safety considerations.

**AVMT 162 - 3 credits - Unmanned Aircraft Systems Flight Training** provides academic, flight, and simulator training on selected Unmanned Aircraft Systems (UAS). The topics include flight and sensor operations, airspace coordination, command and control, communications, mission planning, application and utilization. **Flight**

**Lab fee - \$ 650.**

**AVMT 201 – 4 credits – Aviation Meteorology** provides an in-depth discussion of atmospheric science and the relationship to flight operations. Students learn thermal and pressure patterns, atmospheric circulation, jet stream movement, air masses, fronts, stability, cloud formation, fog, icing, turbulence, thunderstorm development, and seasonal weather trends. Meteorological hazards to flight operations are presented and integrated with detailed weather analysis and modern forecasting techniques.

**AVMT 211 - 3 credits - Air Transportation** discusses the importance of transportation in the United States economy, contrasting the different modes of transportation, government regulation, development, and transportation policies. This course will highlight advancements in air transportation and focus on general aviation, airline classification, structuring, pricing, scheduling, route selection, and problems facing the system under deregulation.

**AVMT 216 - 3 credits - Aviation Safety** explores the causes of aircraft accidents, both ground-based and inflight. This course provides an overview of NTSB accident investigation procedures, the development of accident prevention programs, regulations and government agencies involved in promoting aviation safety. Aviation safety planning, safety awareness, and human factors leading to aircraft-related accidents will be examined.

**AVMT 221 - 3 Credits - The Air Traffic Control System** provides an analysis of Air Traffic Control (ATC) functions. Studies include the history, development, and structure of the National Airspace System (NAS), navigation aids, ATC radar systems, terminal and enroute control, flight service and weather facilities, instrument flight rules, airspace, an introduction to aircraft recognition, and FAA regulations. Visits to nearby ATC facilities are included.

**AVMT 226 - 3 credits - Air Traffic Control Operations I** presents a comprehensive analysis of regulatory flight publications including manuals, charts, advisory circulars and procedures. Students will gain a keen understanding of the importance and function of the FAA regulations, Aeronautical Information Manual, Letters of Agreement, Terminal Procedures (TERPS) publications and applicable FAA Orders. Aircraft Recognition and Performance will also be studied and applied. These lessons will be correlated and reinforced with simulation exercises where students will be challenged to use proper pilot-controller phraseology and decision making skills.

**AVMT 227 - 3 credits - Air Traffic Control Operations II** introduces air traffic control tower operations, equipment, policies and procedures. Students will learn proper teamwork, decision making and CRM skills and apply their knowledge of non-radar operations through ATC tower simulator exercises. These exercises will present challenging scenarios such as Land and Hold Short procedures, holding and IFR approaches, aircraft emergencies and other dynamic examples. **Simulator Lab Fee: \$ 925.00**

**AVMT 228 - 3 credits - Air Traffic Control Operations III** introduces non-radar control procedures including hand off procedures, sector coordination, LOA, & flight progress strip marking. Students will practice these skills in terminal radar approach control (TRACON) and air route traffic control center (ARTCC) laboratory simulation facilities.

**AVMT 229 - 3 credits - Air Traffic Control Operations IV** introduces radar control procedures including radar theory, equipment and operation, radar interpretation, hand off procedures, sector coordination, LOA, flight progress strips, weather and confliction resolution. Students will practice these skills in terminal radar approach control (TRACON) and air route traffic control center (ARTCC) laboratory simulation facilities.

**AVMT 230 - 3 credits - Air Traffic Control Operations V** serves as a capstone course enabling students to demonstrate and review their knowledge and skills in air traffic procedures. In this course students will engage in a series of individual and group projects and extensive simulator training to enhance their skills and abilities.

**AVMT 241 - 4 credits - Instrument Pilot Ground School** provides all required ground instruction for the Instrument Rating. Upon successful completion of this course, students will receive an endorsement to take the FAA Instrument Pilot written examination. Topics discussed in this course include flight by reference to instruments, instrument flight rules, the National Airspace System, airborne navigation equipment, flight management systems, meteorology and weather avoidance equipment, FAA regulations, safety, flight physiology, communications, CRM, and terminal procedures.

**AVMT 242 - 3 credits - Instrument Pilot Rating - Airplane** provides academic, flight, and simulator training required for the Instrument Pilot Rating. Instruction includes preflight preparation, air traffic control clearances and procedures, flight by reference to instruments, navigation systems, instrument approach procedures, emergency operations, safety, and post-flight procedures. Students successfully completing this course will receive their Instrument Pilot Rating.

**Flight lab fee - \$ 12,200**

**AVMT 243 - 1 credit - IFR Flight Operations** provides an introduction to Instrument Flight Rules (IFR) flying operations for *non-pilot students*. Instruction includes flight by reference to instruments, radio navigation, Air Traffic Control (ATC) communications, weather avoidance, flight planning and instrument approach procedures. This course is designed to be taken concurrent with AVMT 241. **Flight lab fee - \$ 1,700.**

**AVMT 244 - 3 credits - Instrument Pilot Rating - Helicopter** provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Instrument Rating, Helicopter class. Topics include preflight preparation; air traffic control clearances and communications; flight by reference to instruments; navigation systems; instrument approach procedures; emergency operations; safety; and post flight procedures. **Flight Lab fee - \$ 22,500**

**AVMT 246 - 4 credits - Commercial Pilot Ground School** provides all required ground instruction for the Commercial Pilot Certificate. Upon successful completion of this course, students will receive an endorsement to take the FAA Commercial Pilot written examination. Topics discussed in this course include advanced aerodynamics, high performance aircraft, including multi-engine and turbine aircraft, advanced aircraft systems, safety, navigation, meteorology, FAA regulations, flight physiology, high altitude flight operations, and crew resource management (CRM).

**AVMT 247 - 3 credits - Commercial Pilot Certification - Airplane SE & ME** provides academic, flight, and simulator training required for the Commercial Pilot Certificate. Instruction includes preflight preparation, specialty takeoffs and landings, commercial pilot maneuvers, navigation, slow flight, stalls, spin awareness, emergency procedures, safety, operation of complex and high performance aircraft, high-altitude procedures, and postflight procedures. Students successfully completing this course will receive their Commercial Pilot Certificate. **Flight lab fee \$ 24,800.**

**AVMT 248 - 3 credits - Commercial Pilot Certification - Helicopter** provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Commercial Pilot Certificate, Helicopter class. Topics include preflight preparation; precision approaches; takeoffs and landings; commercial pilot maneuvers; advanced navigation; hovering flight; emergency procedures; safety; and post flight procedures. **Flight lab fee \$ 18,200.**

**AVMT 249 - 3 credits - Commercial pilot Certification - Airplane SE** provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Commercial Pilot Certificate, Airplane category, Single Engine. Topics include preflight preparation; specialty takeoffs and landings; commercial pilot maneuvers; advanced navigation; slow flight; stalls; spin awareness; emergency procedures; safety; high-altitude flight operations; and post flight procedures. **Flight lab fee \$ 20,500.**

**AVMT 251- 3 credits- Airport Management** introduces the student to the historical development of modern airports, business and operational factors facing airport management, airport regulations and government agencies, labor and personnel relations, security, safety, facility maintenance, airport tenants, funding, airport design and expansion planning, marketing, and public relations.

**AVMT 256 - 3 credits - Airline Management** provides an in-depth study of airline operations. Topics include determination of airline fleet composition, scheduling, demand forecasting, pricing structure, facilities planning, marketing, financing, analyzing labor requirements, operational costs, and profit/loss reporting.

**AVMT 258 - 3 credits - Aircraft Dispatcher** provides the practical skills and knowledge required for airline dispatch operations including aircraft scheduling, tracking and control, and aircraft performance computations. Software planning tools such as flight routing systems, crew scheduling, and weather analysis will be utilized. **Lab fee \$ 2,600.**

**AVMT 259 - 3 credits - Comprehensive Aircraft Dispatcher** provides the practical skills and knowledge required for the FAA Aircraft Dispatcher certificate. Topics include aircraft scheduling, tracking, control, and aircraft performance computations. Software planning tools such as flight routing systems, crew scheduling, and weather analysis will be utilized. **This is a full certification course for students not enrolled in the CCBC Aviation Program.** **Lab fee \$ 4,500.**

**AVMT 261 – 3 credits – Certificated Flight Instructor Airplane** provides academic, flight, and simulator training required for the Federal Aviation Administration (FAA) Certificated Flight Instructor (CFI) Airplane rating. Topics include fundamentals of instruction, best practices in aeronautical instruction, professionalism, and FAA regulations relating to student flight training. **Lab fee \$ 6,000.**

**AVMT 262 – 3 credits – Certificated Flight Instructor - Helicopter** presents academic, flight, and simulator training required for the Federal Aviation Administration (FAA) Certificated Flight Instructor (CFI) Helicopter rating. Topics include fundamentals of instruction, best practices in aeronautical instruction, professionalism, and FAA regulations relating to student flight training. **Lab fee \$ 8,000.**

**AVMT 263 – 3 credits – Certificated Flight Instructor Instrument - Airplane** presents academic, flight, and simulator training required for the Federal Aviation Administration (FAA) Certificated Flight Instructor Instrument (CFII) – Airplane rating. The course includes the fundamentals of student instruction, flight by reference to instruments, navigation systems, enroute operations, instrument approaches, emergency procedures, and safety. **Lab fee \$ 6,000.**

**AVMT 264 – 3 credits – Certificated Flight Instructor Instrument - Helicopter** - Presents academic, flight, and simulator training required for the Federal Aviation Administration (FAA) Certificated Flight Instructor Instrument (CFII) Helicopter rating. The course includes the fundamentals of student instruction, flight by reference to instruments, navigation systems, enroute operations, instrument approaches, emergency procedures, and safety. **Lab fee \$ 8,000.**

**AVMT 265 – 3 credits – Certificated Flight Instructor Multi-Engine Airplane** presents academic, flight, and simulator training required for the Federal Aviation Administration (FAA) Certificated Flight Instructor – Multi-Engine (MEI) Airplane rating. Course includes the fundamentals of student instruction, pre-flight preparation, multi-engine airplane operations, complex aircraft systems, emergency procedures, safety, and post-flight procedures. **Lab fee \$ 9,000.**



**SCHOLARSHIPS & GRANTS**

Students should take advantage of all available scholarships, grants, and financial aid to help pay for their education! There are numerous scholarships and grants available, depending on your student status, curriculum, and ethnic background. CCBC Financial Aid can help you identify applicable grants.

CCBC Student Services has a list of locally available scholarships. Students are encouraged to visit the following web site for aviation scholarship information: <http://www.avscholars.com/>. For a list of nationally available scholarships, perform a web search using key words "aviation scholarships"

**FINANCIAL AID**

The CCBC Financial Aid office can help you with obtaining Student Loans, but students must ensure that they provide the proper paperwork to the financial aid counselors on a timely basis. There are also deadlines for application. The CCBC Financial Aid office is located in Student Services building and may be contacted at 443-840-4170.

Deadlines and other financial aid information are available on the CCBC website: [CCBC Financial Aid](#)

Do not expect student loans to happen overnight! Students should apply for student aid 1-2 months before the start of the semester. CCBC Financial Aid Counselors can advise you on what aid is available to meet your requirements.

The first step in obtaining any student loans is to complete and submit the **Free Application For Student Aid (FAFSA)**. FAFSA applications are available in the CCBC Financial Aid Office. The preferred method is to submit the form electronically via the web at the following address: <http://www.fafsa.ed.gov/> Submitting this form electronically is usually much faster.

You will need your financial information to complete the FAFSA form (income, W-2 documents). You must request that your info be sent to THE COMMUNITY COLLEGE OF BALTIMORE COUNTY. There is a place on the form to have this done. **The CCBC Federal Code is 002063.**

It will take several weeks before the government processes your application -- when this is done, an approval form will be sent to your address -- when you receive this information, immediately come to the financial aid office to complete the student aid process!

For more information, pick up a copy of the Federal Student Aid Guide, available in the Financial Aid Office, or visit the following web site: [www.fafsa.ed.gov](http://www.fafsa.ed.gov)

**Continued next page...**



## STUDENT LOANS

After you have completed the FAFSA form, you should schedule an appointment with a CCBC financial advisor to determine what grants and **subsidized** (guaranteed by the federal government) loans are available to you. You may not qualify for sufficient subsidized financial assistance to pay for your education, especially if you are pursuing flight training. In this case, you have the option of also pursuing **non-subsidized** student loans, which are not guaranteed by the federal government and may have a higher interest rate.

Most CCBC students enrolled in the Professional Pilot degrees elect to pursue both subsidized and non-subsidized student loans.

The most common lender for these loans is **Sallie Mae**: [www.salliemae.com](http://www.salliemae.com).

The Sallie Mae website has a wealth of information on selecting colleges and determining costs and affordability.

There are also numerous banking services that will offer student loans to those who qualify.

Students considering using financial aid should visit the [CCBC Financial Aid Assistance Center](#)

## VETERANS BENEFITS

CCBC Aviation Courses are approved by the Veteran's Administration. In many cases, VA benefits will cover 100% of tuition costs. CCBC has been recognized as one of the most Veteran-friendly colleges in the US!

**Veterans** are encouraged to visit the [CCBC Veteran's Center](#)

Maryland National Guard members (Army & Air Force) are able to take advantage of a 50% tuition assistance plan and student loan repayment programs while attending **public** colleges and universities in Maryland. Under these programs, 100% of tuition costs (including flight training lab fees) may be financed through a combination of VA benefits and loan repayment programs.

Active duty military members (including retired or separated) will be able to use their VA Benefits to pay for academic courses. **Flight training lab fees are normally only covered under the Post 9-11 GI Bill program.**

Visit our VA Liaison in the CCBC Financial Aid Office located in Student Services building (Catonsville Campus) for details, or call 443-840-4305.