

# PROFESSIONAL PILOTING

Associate in Applied Science



# Discover Your Community College

Jamestown Community College, founded in 1950 as a predominantly transfer, liberal arts-oriented institution, was among the first community colleges within the State University of New York.

The college has grown from an enrollment of 169 students attending classes at Jamestown High School to an enrollment of nearly 3,500 in a multi-campus institution. The Jamestown Campus is located on a 107-acre site at the foot of Chautauqua Lake in Jamestown, New York. The Cattaraugus County Campus is located 50 miles east of Jamestown in Olean, New York. JCC also operates centers in Dunkirk, New York and Warren, Pennsylvania.

The remarkable development of the college is a tribute to a dedicated faculty and administration, combined with support and encouragement from the officials and citizens of its service area. Characterized by a climate of informal interaction between faculty and students, JCC provides a learning environment which encourages growth and change while maintaining high academic standards.

JCC has remained committed to the humanities and liberal arts while expanding to meet the social imperatives of vocational education and community service. The threefold purpose of the college is to serve those students desiring transfer programs, provide technical and career programs for those who wish to seek employment immediately after graduation, and offer the community the opportunity to pursue study for improvement of job skills and cultural enrichment.

The college seeks to provide expanding services to the community in keeping with the State University of New York motto:  
To Learn...To Search...To Serve.

## ***On the cover:***

Certified Flight Instructor Mike Jeswald, a May 2006 JCC graduate, is employed by Prior Aviation in Buffalo. Mike, shown with one of his students, is also a CFII and had 620 flight hours as of February 2007.

# A.A.S. Professional Piloting Degree

Students can pursue an exciting career as a professional pilot at JCC and through articulation agreements JCC has with Genesee Community College, Monroe Community College, and Erie Community College. Flight training can be done through agreements with Dunkirk Aviation in Dunkirk, NY, Jamestown Aviation in Jamestown, NY, Prior Aviation in Buffalo, NY, Rochester Air Center in Rochester, NY, and Hirsch Aviation in Batavia, NY. All of these flight providers are Federal Aviation Administration (FAA) approved Part 141 schools. Students should carefully consider the choice of flight providers. While each follows an FAA approved curriculum, there are important differences -- such as hourly instructor and aircraft rates, type of aircraft used for instruction, instruction methods, and dispatch procedures -- which can impact the total cost and overall service. Discovery flights are available at each flight school for a nominal fee.

Students will apply for admission to JCC, the degree granting institution and the institution of record for all financial aid considerations. Students can take their liberal arts courses at any of the community colleges listed. Students will enroll in aviation courses through JCC and complete flight training at any of the above providers. JCC will administer financial aid for the combined simultaneous enrollments currently allowed by federal and state financial aid programs. Therefore, students taking a combined total of 12 or more required credit hours at two or more colleges, with at least three credits at JCC, will be considered full-time for the purposes of financial aid.

Students may matriculate courses from other colleges. Students who already possess FAA certificates or ratings may receive equivalent course credit through the Life Experience Credit program.

## **Upon completion of the degree, students will:**

- have their private and commercial pilot licenses, and instrument rating.
- will have accumulated between 220 and 250 hours of flight time.
- have earned either the Certified Flight Instructor – Airplane rating which allows them to work immediately while they accrue hours needed to advance in the field, or have earned the multi-engine rating which may afford them specific employment opportunities and the chance to build multi-engine time.
- have the option of earning the rating not earned in the previous bullet, and the Certified Flight Instructor – Instrument ratings. Earning these ratings will involve additional flight training expenses.
- have a two-year degree in which at least half, and potentially all, of the courses will transfer to four-year degree programs. Students are encouraged to continue to pursue a four-year degree.

# Career Opportunities

## Immediate Employment Opportunities

Students who earn the Certified Flight Instructor rating are immediately employable as FAA-approved flight instructors at flight schools throughout the country. To reach the 1000+ hours of flight time needed to gain employment with small companies, students may choose to work as flight instructors during which time they log the same hours as their students while earning pay and not paying airplane rental. Flight instructors may log as many as 500-1200 hours per year. Students who earn the multi-engine rating may find employment and build valuable multi-engine time to accrue hours.

## Career Opportunities

As the celebrities of the aviation industry, pilots are ultimately responsible for all aspects of the operation of the aircraft, from flight planning to supervising handling of the aircraft. They fly and navigate the aircraft while monitoring systems, fuel, and weather, and communicating with air traffic control. The product of years of training and hundreds, if not thousands of hours of experience, pilots operate aircraft for major or regional airlines, charter companies, large businesses, freight, private individuals or companies, bush flying, crop spraying, and flight instructing. Opportunities for advancement are great, and a pilot's career may span several areas of specialty.

According to the U.S. Department of Labor, Bureau of Labor Statistics, the employment of aircraft pilots is projected to increase about as fast as average for all occupations through 2012. Job opportunities are expected to continue to be better with regional airlines and low fare carriers, which are growing faster than the better-known major airlines. Opportunities with air cargo carriers also are expected to be good due to increasing security requirements for shipping freight on passenger airlines and growth in e-business. Earnings of pilots will vary significantly with experience, type, size, and maximum speed of aircraft flown, and whether employment is with airlines or other commercial companies. Fringe benefits for pilots and their families can be substantial, including life and health insurance, retirement benefits, and free or reduced fare transportation on airlines.

*Nick Cusimano, a Certified Flight Instructor and 2005 JCC graduate, flies with AirNet. JCC courses prepared him well for the Airline Transport Pilot exam, which he passed easily.*

*"The JCC program prepared me for the real pilot world," notes Nick. "Going to JCC was the best decision I ever made."*

# Program Requirements

Currently, students must meet two criteria to be formally admitted into the Professional Piloting program. Students must show proof that they hold a current FAA First Class Medical Certificate and must be approved to receive flight training by the New York State Division of Criminal Justice Services through a criminal history background check. Additional details on each of these follows.

## FAA Medical Certificates

FAA approved Aviation Medical Examiners (AMEs) can issue one of three medical certificates, each having progressively greater restrictions:

- Third Class airman medical certificate is required to exercise the privileges of the private pilot, recreational pilot, flight instructor, or student pilot certificates. This certificate is valid for three years for pilots under the age of 40 and for two years for those 40 and over.
- Second Class airman medical certificate is required for commercial, non-airline duties, and is valid for one year. (Upon expiration, this certificate reverts to a third class medical for an additional one year.) Those exercising the privileges of a flight engineer or flight navigator certificate, or acting as an air traffic control tower operator, must hold a second class airman medical certificate.
- First Class airman medical certificate is required to exercise the privileges of an airline transport pilot certificate. This certificate is valid for six months. (Upon expiration, this certificate reverts to a second class medical for an additional six months.)

Students are required to show proof that they hold a current First Class medical certificate to gain formal admission into the program. This increases the likelihood of identifying a medical condition that could eventually prohibit someone from flying. A list of AMEs can be found at <http://ame.cami.jccbi.gov>. Additional information on the Aerospace Medical Certification Division can be found at <http://ame.cami.jccbi.gov/AAM-300/amcdfaq.html>.

Students who are interested in enrolling in the program but do not have the expectation of ever exercising the privileges of an airline transport pilot certificate may request a waiver of the requirement of the first class airman medical certificate through JCC's director of aviation.

# Program Requirements

## **Criminal History Background Check**

New York state passed a law, effective October 15, 2006, which requires each “new and prospective applicant for flight instruction” to undergo a criminal history background check through the New York State Division of Criminal Justice Services (DCJS). Students currently enrolled in flight training are exempt from this background check. The result of the background check must indicate that the student is eligible to receive flight training to gain formal admission to the program.

The process for this background check can be initiated through the admission process with JCC or through any flight school. The process includes:

1. Students will be given/mailed the Applicant Consent Form for Fingerprinting and Criminal History Information Records Search document along with a fingerprint card.
2. Students will complete parts 1 and 2 of the Applicant Consent Form.
3. Students will contact their local, county, or state law enforcement office to schedule a time when they can have their fingerprints taken. (There may be a nominal fee of \$10 to \$15 for this service.)
4. When steps 2 and 3 are complete, the student will return the completed Applicant Consent Form and the completed fingerprint card to JCC's admissions office or to a local flight school.
5. The JCC admissions director, or the flight school, will complete parts 3 and 4 of the Applicant Consent Form and mail both the form and the fingerprint card to the DCJS which will complete the background check. The commissioner of DCJS will notify the applicant and the college or flight school of the determination of a student's eligibility for flight training and, therefore, whether or not the student satisfies this admission criterion.

An applicant may withdraw from the application process, without prejudice, at any time. Any fingerprints and criminal history information received by a school concerning the applicant must be returned to the applicant within 90 days. An applicant must appear in person at JCC's admissions office to have his or her records returned. If s/he does not appear in person within 90 days after withdrawing, the records and fingerprints will be treated as abandoned property and destroyed.

The college is required to inform applicants that they have the right to review and seek correction of his or her criminal history record information.

# Program Course of Study

## Program Course of Study

Listed below are the required JCC courses. A list of “equivalent” courses for the General Education Core Requirements exists for each of Genesee, Monroe, and Erie community colleges. The articulation agreements guarantee that JCC will accept, through transfer, the entire list of “equivalent” courses when completed at any of the participating colleges. The transfer agreements are only valid for this degree program.

<b>General Education Core Requirements</b>	<b>29-31.5 credit hours</b>
<b>Social Sciences Elective</b>	<b>3</b>
<b>Additional Liberal Arts/Sciences/Career Electives</b>	<b>9-11.5</b>
ENG 1530: English Composition II	3
ENG 1540: Writing About Literature	3
GEO 1520: World Regional Geography	3
INT 1520: Student Success Seminar	1
MAT 1590: College Algebra and Trigonometry	4
MET 1510: Introduction to Meteorology	3
<b>Aviation Core</b>	<b>28.5-31 credit hours</b>
AVN 1100: Aircraft Powerplants and Systems	3
AVN 1140: Private Pilot Ground School	3
AVN 1150: Private Pilot Flight	1.5
AVN 1200: Survey of Air Traffic Control	3
AVN 1240: Instrument Pilot Ground School	3
AVN 1250: Instrument Pilot Flight	1.5
AVN 1340: Commercial Pilot Ground School I	1.5
AVN 1350: Commercial Pilot Flight I	1.5
AVN 2100: Aviation Safety	3
AVN 2140: Commercial Pilot Ground School II	1.5
AVN 2150: Commercial Pilot Flight II	2.5
AVN 2200: Advanced Aircraft Systems	3
AVN 2250: Certified Flight Instructor - Airplane or	3
AVN 2350: Multi-Engine Flight	.5
	<b>Total: 60 hours</b>

# Financial Aid Opportunities

Students attending JCC or working through articulation agreements with Genesee Community College, Monroe Community College, or Erie Community College participate in a range of financial aid resources including federal, state, and institutional grants, scholarships, loans, and work-study programs. Students must be accepted and matriculated by the JCC admissions office and meet academic eligibility criteria to receive awarded funds. The following list suggests financial aid options to investigate:

- New York residents may be eligible for Tuition Assistance Program (TAP) grants as full-time students and Aid to Part-Time Students (APTS) grants for part-time study.
- Pennsylvania resident students attending JCC's Jamestown Campus or Warren Center may participate in the PHEAA grant program for full- and part-time students.
- All students may be eligible for federal funding which includes PELL, SEOG, and Academic Competitive grants, work-study, and the Stafford student loan program.
- (Parent) Plus Loans are available for parents interested in helping a student finance the cost of the professional piloting program.
- JCC provides students with a large number of institutional scholarships including the USA, Holmberg, and Katharine Jackson Carnahan merit scholarships. Application instructions and additional scholarship information is available at [www.sunyjcc.edu](http://www.sunyjcc.edu). These scholarships are currently restricted to students from JCC's service area.

Students are encouraged to learn as much as possible about the resources and programs available to them. JCC recommends that students read the JCC financial aid resource guide "Financing Your College Education" and the U.S. Department of Education's "The Guide to Federal Student Aid," both of which are available from the financial aid office. Information is available online at [www.studentaid.gov](http://www.studentaid.gov) and [www.hesc.com](http://www.hesc.com). Please contact JCC's financial aid office, 1-800/388-8557 with any questions.



*Kyle Kimmerly has been flying for Rochester Aerial Mapping Services. He plans to complete his ratings and degree requirements during the summer of 2007.*

# Financial Aid Opportunities

## How to Apply for Financial Aid

Students must complete the Free Application for Federal Student Aid (FAFSA) to apply for all federal, state, and institutional financial aid programs. You can file the application online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). The FAFSA application should be filed between January 1 and March 1 of each year for the following academic year. It is critical that this process be completed in a timely manner and that you follow through at every step along the way. Please contact JCC's financial aid office for more information.

An alternative student loan from a private lender may be an option for students to consider for this program. These loans should only be pursued after all other financial aid resources have been exhausted. JCC recommends that students check with the financial aid office to confirm they have received all available federal, state, and institutional funds before pursuing alternative loan funds. JCC cautions all students to be conservative in their borrowing and to thoroughly research and learn the borrower's rights and responsibilities prior to applying for any student loan. Additional information is available from the financial aid office.



*Greg Kowal, a December 2006 JCC graduate, is currently working as a flight instructor at Dunkirk and Jamestown Aviation. He had accumulated 585 flight hours as of February 2007.*

# Program Costs

Students enrolled in the professional piloting degree program should plan on the following annual estimated expenses for their classroom and flight instruction:

## **Tuition, Fees, and Textbooks:**

Full-time enrollment (12 or more credit hours/semester)

\$4,200 annual	NYS residents (\$2,100/semester)
\$7,100 annual	non-NYS residents (\$3,550/semester)

Students may enroll on a part-time basis and should consult the college master schedule for current tuition and fees.

Students who are working through the articulation agreements with Genesee, Monroe, Erie, or other community colleges will enroll at those institutions to complete General Education Core Requirement courses. Students will enroll for aviation core courses at JCC. Students will pay tuition and fees separately to each institution. JCC will process a consortium agreement (as currently allowed by state and federal financial aid programs) so that all hours taken at both institutions that count toward the degree will be included by JCC in determining the part- or full-time status of the student.

## **Aviation Fees:**

JCC currently estimates the total cost of flight training to satisfy degree requirements to be approximately \$38,000\* (\$12,000 in each of the first two semesters and \$7,000 in each of the second two semesters). Students can invoice all ground school and flight training, headset, ground school instructional supplies, FAA written test fees, and check ride fees incurred at the airport to the college. While this total should cover all required training for most students, there is no implied guarantee that this amount will cover all expenses for every student. There are many factors that impact the money that a student uses during flight training and once the funds are expended, the student is responsible for all further costs directly to the airport.

\*The aviation fees are based on a fair estimate of flight hours and related training costs required by PART 141 Federal Aviation Regulations for students to earn each of the respective ratings. Actual costs for instructors and aircraft rentals vary among the different flight schools. Students should consider the total program costs as well as the costs at specific flight schools to determine an overall financial plan that will allow successful completion of the program. In all cases, when students pay the aviation fee as part of the JCC tuition bill, the college holds this total in an account. Flight schools bill JCC monthly or bimonthly. Costs incurred by a student are deducted from

# Program Costs

the student's balance and paid directly to the flight school. Detailed records are kept by the college and the flight school. Students are encouraged to keep detailed records as well.

\*These amounts in no way guarantee that costs will be covered throughout a student's training. In all cases, students who deplete their accounts at any time and require additional flight time to earn a rating will be responsible for additional hourly costs payable directly to the flight school.

\*The aviation fees include a non-refundable administrative fee of approximately \$125-150 per semester.

## Recent Program Changes

JCC's program offers the opportunity for serious students to pursue an exciting career as a pilot. JCC and the flight schools work together to create a supportive atmosphere to meet both the educational and flight training aspects of the program. Effective fall 2006, JCC implemented a new grading policy for ground and flight courses, along with a "minimum satisfactory progress" standard for ground and flight training. All students are required to sign an updated Flight Student Policy.

Students must realize that to meet all of the requirements of the program within two years, they must train regularly, at a minimum of two times each week. Continued, systematic progress through the flight training will also ensure that students do not run into issues involving financial aid.

## *For more information*

**Rick Rupprecht, Director of Aviation**  
716-338-1322

**Admissions Office**  
**Jamestown Campus**  
**Jamestown Community College**  
525 Falconer Street  
P.O. Box 20  
Jamestown, NY 14702-0020  
716-665-5220, extension 2239 or 1-800-388-8557

[www.sunyjcc.edu](http://www.sunyjcc.edu)

- We have a well-earned reputation for academic excellence.
- Our faculty have distinguished credentials and years of teaching and professional experience.
- Students have access to superior tutoring, library and computing support services.
- We offer personal, academic, and career counseling and job placement.
- We make quality education affordable.
- Credits transfer easily to four-year institutions.
- Excellent technical programs are available for those planning to enter the workforce.
- Our students enjoy the benefits of membership in the largest university system in this country — the State University of New York.
- We are committed to enhancing student success.

*[www.sunyjcc.edu](http://www.sunyjcc.edu)*

Jamestown Community College is sponsored by a regional board of trustees representing Cattaraugus County, Chautauqua County, and the City of Jamestown. Jamestown Community College does not discriminate on the basis of color, sex, sexual orientation, race, creed, national origin, age, marital status, veteran status, or disability. This policy applies to access to all activities and programs under the college sponsorship as well as to application and selection for admission, employment, and all other personnel procedures within the college.

The college reserves the right, whenever it deems advisable, to change its schedule of tuition and fees; to withdraw, cancel, reschedule, or modify any course, program of study, degree, requirement, or policy.

This material can be made available in alternative media upon request for those with disabilities. Accommodations for those with disabilities can be arranged upon request.