

Course Outline: Flight 10

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Contact Information:

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Course Overview:

This Grade 10 Flight Academy course provides students with foundational knowledge and practical skills in aviation and flight operations. Students will explore the history of flight, principles of aerodynamics, aircraft systems, and aviation safety. The course combines classroom instruction with hands-on activities, simulation exercises, and ground school training to develop critical thinking, problem-solving, and decision-making skills essential for future pilots and aviation professionals. Emphasis is placed on professional skills such as discipline, communication, and teamwork, preparing students for advanced flight training and careers in the aviation industry.

To achieve success in the SAFA program, it is essential for students to prioritize their flying activities by adhering to the provided timeline. This careful management will enable them to complete the program within the designated flight hours. It is important to note that any time spent exceeding the allotted 70 hours set by the academy will incur additional costs, which must be paid separately by the student.

Students can track flight hours through the FlightLogger, which provides real-time updates and feedback on their progress. Additionally, students will receive monthly email updates that include flight projections, ensuring they remain informed about their standing in the program. Staying on top of these details will not only help students manage their time effectively but also aid in their overall success within the SAFA program.

Super T & Flying:

- Super T instructors will be teaching ground school for the entire year at Super-T Aviation airport location.
- Students will be bussed from EBHS at 10:05 to either the SAC building or Super T aviation and will return to the high school at 12:15.
- Grade 10 students will not receive their flight bag until spring and will begin their flight training once they have completed the ROCA, PSTAR, and Cessna 172 exams.
- Students who are flying must follow Super T guidelines and rules Ex. dress code
- Students are expected to complete their first solo before they start grade eleven.

Expectations:

- **Active Participation:** Students are expected to engage actively in all classroom discussions, practical exercises, and simulation activities to enhance their understanding of aviation concepts.
- **Safety Awareness:** Students must consistently follow all safety protocols and demonstrate responsibility during all hands-on training, flight simulations, and actual flying exercises.
- **Punctuality and Preparedness:** Students should arrive on time and come prepared with necessary materials, including flight manuals, notebooks, and any assigned work.
- **Respect and Teamwork:** Students are expected to show respect for instructors, peers, and equipment, and collaborate effectively in team-based activities.
- **Flight Strategy Execution:** During flight strategy lessons and practical flying sessions, students are expected to apply learned techniques accurately, demonstrate sound judgment, and adapt to changing flight conditions safely and confidently.
- **Continuous Learning:** Students should demonstrate a commitment to learning by completing assignments, studying course materials, and seeking clarification when needed.
- **Professionalism:** Students must exhibit discipline, integrity, and professionalism in all aspects of the course, reflecting the standards of the aviation industry.
- **Communication:** Parents and students are encouraged to check in with instructors when questions or concerns arise. It is also highly recommended that both student and parent attend Parent Teacher Interviews in semesters 1 and 2 to help support student learning.

Modules:

Module	Course Description	Assessment	Credits
Aviation Flight- LDC 1351	Flight courses are based on expectations equivalent to Transport Canada and as such, students will work with real-world curricula from which they may identify and apply career and life skills through their learning. Students will gain knowledge, understanding and skills through their experiences in this course.	172 Exam 10% Quizzes 30% Assignments 60%	3
Advanced Practicum- HCS 3950	Students apply prior learning and demonstrate the attitudes,	Assignments 60% ROC-A 20%	1

	skills and knowledge required by an external organization to achieve a credential/credentials or an articulation.	PSTAR 20%	
Phys Ed- PE 10	Students participate in a variety of games to develop individual and manipulative skills, techniques, strategies, and spatial awareness. Inherent in playing all games are cooperation, respect for others, fair play and etiquette.	Skills 40% Assignments 60%	3
Fabrication Tools & Materials- FAB 1010	Students develop knowledge of shop safety, proper tool usage and materials used in fabrication processes, and safely transform common metals into useful products.	Assignments 100%	1
Mechanics Tools & Materials- MEC 1015	Students develop knowledge, skills and attitudes in the safe use of specialty hand tools, measuring tools and fasteners.	Assignments 100%	1
Vehicle Service & Care- MEC 1020	Students develop the knowledge, skills and attitudes to care for and service a motor vehicle.	Assignments 100%	1
Robotics 1- ELT 1130	Students apply the fundamentals of robotics systems and basic robotics functions.	Assignments 75% Drone Exam 25%	1
Outdoor Survival Skills- WLD 1130	Students develop and demonstrate the attitudes, skills and knowledge required for responsible participation in a range of outdoor activities.	Assignments 100%	1
Outdoor Cooking Theory- WLD 1100	Students develop and demonstrate safe and sanitary food handling procedures, equipment care, comprehension of recipes and an understanding of the importance of efficient work habits in outdoor cooking environments.	Assignments 100%	1
First Aid- HCS 2020	Students study and demonstrate first-aid skills and	Assignments 75% Exam 25%	1

	procedures, including cardiopulmonary resuscitation (CPR) and automatic external defibrillator (AED), for dealing with emergency situations.		
Child Care First Aid- HCS 3040	Students study and demonstrate first-aid skills and procedures, including cardiopulmonary resuscitation (CPR) and automated external defibrillator (AED), for dealing with emergency situations with emphasis on children	Assignments 75% Exam 25%	1

Flight General Timeline

- Medical
- PSTAR, ROC-A, Cessna 172 Exam
- Walk Around/ Weight & Balance
- Flight Lessons/Ground Briefing
- First SOLO
- Navigation
- Cross Country
- SOLO Cross Country
- Transport Canada Exam Prep
- Written Exam/ Flight Test

Completion Date

- Fall of Grade 10
- Spring of Grade 10
- Spring of Grade 10
- Spring of Grade 10
- Before Fall of Grade 11
- Fall of Grade 11
- Spring of Grade 11
- Before Fall of Grade 12
- Fall of Grade 12
- Spring of Grade 12

Notes:

Students are required to complete the ROCA, PSTAR, and Cessna 172 examinations during the second semester. The specific dates for these assessments will be assigned by the instructor. It is crucial to adhere to this schedule, as there will be no exceptions granted for any reason. Please ensure that you are prepared to take these exams on the designated dates to avoid any complications.