

280-3B4-EM FALL 2018 Pre-Flight Department

COURSE OUTLINE

COURSE: Aerodynamics

PROGRAM: 280.C0 Aircraft Maintenance

DISCIPLINE: 280 Aeronautics

WEIGHTING: Theory: 2 Practical Work: 2 Personal Study: 2

Instructor(s)Office★ extension☑ e-mail or websiteÉric JettéC-1824615eric.jette@cegepmontpetit.ca

OFFICE HOURS

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Morning					
Afternoon					

Coordinator(s)	Office	🕾 extension	⊠ e-mail or website
Éric Goudreault	C-160	4691	eric.goudreault@cegepmontpetit.ca
Serge Rancourt	C-160	4664	serge.rancourt@cegepmontpetit.ca

CONTEXT OF THIS COURSE IN THE PROGRAM

This course is offered during the third session of the program and is designed for all students in the Aircraft Maintenance Technology program. By the end of this course, students will have developed:

- The ability to recognize factors that influence drag and lift on aircraft.
- The ability to recognize factors that influence the propulsive force of propellers.
- The ability to make calculations in order to compare and observe aircraft performance.
- The ability to recognize factors that influence aircraft performance.

Students must keep this course outline for the duration of their studies as it will be useful for the comprehensive assessment at the end of the program.

Transport Canada: This course outline meets the requirements of Training Organisation Certification Manual (MCF) of Transport Canada. The Department applies Transport Canada standard which allows a maximum absence of 5% for the course (theory and laboratory). The department compiles absences of all students enrolled in Aircraft Maintenance (280.C0) and Avionics (280.D0) according to Transport Canada requirements. The application of Transport Canada policies regarding absences is available on the ENA website and in the student agenda under the heading « Privilèges accordés par Transports Canada ».

COMPETENCIES OF THE EXIT PROFILE (STUDENT SKILL PROFILES)

Master the scientific bases and those of the work functions.

MINISTERIAL OBJECTIVE(S) AND COMPETENCIES

0260 To apply the principles of aerodynamics.

TERMINAL OBJECTIVE OF THE COURSE (FINAL COURSE OBJECTIVE)

Recognize, gauge and quantify the factors that influence the design performance and aerodynamic parameters of an aircraft, subject to conditions of use and maintenance activities.

TEACHING AND LEARNING STRATEGIES

Theory:

- The theory part of the course is divided into four modules that deal with advanced concepts of the principles of aerodynamics, aircraft performance and flight.
- Formal lectures will be supported with examples, exercises, illustrations, transparencies, multimedia projection, video, photographs and aircraft parts as teaching aids.
- Before summative evaluations, students will be informed of the important points and elements of the study table which could be targeted on the exam to allow them the best opportunity to succeed in the course.
- Students will complete their learning with their class notes, reviewing exercises and homework.

Laboratory:

- The laboratory part of the course is divided into five modules that deal with advanced concepts of aerodynamics. Students will apply and validate the theoretical elements through wind tunnel tests.
- Students will complete their learning with class notes, reviewing exercises and homework.
- Transparencies, multimedia projection, videos, photographs and aircraft parts will be used as teaching aids.

Warning: exercises or preparatory activities in class (theory) and in the laboratory (practical work) assigned by the instructor(s) must be completed before arriving in class or the laboratory. The instructor(s) reserve the right to refuse access to class or the lab if the exercises have not been completed beforehand and the absence will be recorded in the student's file. It is the student's responsibility to finish exercises in time.

In case of an absence, it is the student's responsibility to find out from classmates what was done in class and the work that was assigned in order to be up to date (refer to the learning objectives in the *Synthesis of Summative Evaluation Methods table*)

COURSE PLAN-THEORY

Activity Periods: 8 hours (approximately)

MODULE 1 – Study of Aerodynamic Drag

	Learning Objective	Content	Personal Study Activities
1.1	Use demonstrations to recognize the major inherent laws, constants and variables of aerodynamics.	Aircraft descriptive forms, mass, standard atmosphere, length weight, surface, volume, density, general gas equation, speed, speed of sound, Mach numbers, specific gravity, pressure, force, dynamic viscosity, Reynolds number, work, power, energy	Review course notes 280-265 Course Notes Readings and exercises as assigned by the
2.1	Determine the reactions produced on aerodynamic variables due to external changes.	Density, viscosity, speed, pressure, surface, volume, mass, humidity, altitude, laminar and turbulent flow	instructor
3.1	Use demonstrations and calculations to recognize different facets of air resistance and different types of drag.	Boundary layer, reference surface, Reynolds number, fluid flow, viscosity, aspect ratio, relative thickness, relative camber, surface finish Total drag Induced drag Parasitic drag: T form T friction T profile T interference T compensation T cooling T parasite Shockwave drag	
4.1	Analyse the factors that influence the drag coefficient and drag.	Characteristic curves of airfoils, surface condition, adjustments, positions, settings, relative thickness, relative camber, plan form, speed, Oswald coefficient, altitude, weight, W _{TO} /S ratio, W _{TO} /HP ratio.	

Activity Period: 8 hours (approximately)

MODULE 2 – STUDY OF DRAG

Learning Objective	Content	Personal Study Activities
1.2 Compare aircraft characteristics	Aircraft descriptive forms, single engines, twin- engines, business, wide-bodied aircraft, military, supersonic, subsonic	Review course notes 280-265
2.2 Use calculations to recognize the factors that influence aircraft performance.	Surface, elongation, weight W_{TO}/S report, W_{TO}/HP ratio, W_{E}/W_{TO} ratio, W_{FUEL}/W_{TO} ratio, range, autonomy, endurance, takeoff distance, vertical speed, horizontal speed, altitude, turn	Course Notes Readings and exercises as assigned by the instructor(s)
3.2 Analyze the factors that influence the lift coefficient (C _z) and lift.	Boundary level, cross-section, Reynolds number, flow type, viscosity, plan form, aspect ratio, relative thickness, relative camber, surface finish, maintenance	
4.2 Analyze the information in a graph representing the curves characteristic of a wing and an airplane.	Relationship between the AR and the characteristic curves of a wing, relationship between the Reynolds number and the characteristic curve of a wing.	
5.2 Recognize the angles of attack of a flight at subsonic, trans-sonic, and supersonic speeds.	Compressibility, speed of shockwave creation, speed of sound, Mach angle, Mach number, pressure wave, expansion wave, maximum speed	
6.2 Calculate the lift of an airplane	Weight, wing loading, W_{TO}/S ratio, W_{TO}/HP ratio, W_{TO}/T ratio, W_{E}/W_{TO} ratio, W_{FUEL}/W_{TO} ratio, W_{U}/W_{TO} ratio,	
7.2 Calculate the moment of an airplane.	Center of pressure, aerodynamic center, moment coefficient and moment, influence of the relative thickness and relative camber on the center of pressure, aerodynamic center and moment coefficient.	

Activity Periods: 6 hours (approximately)

MODULE 3 – PERFORMANCE STUDY

Learning Objective	Content	Personal Study Activities
1.3 Compare aircraft characteristics.	Aircraft descriptive forms, single engines, twin-engines, business, wide-bodied aircraft, military, supersonic, subsonic.	Review Course Notes 280-265.
		Course Notes.
2.3 Use calculations to recognize the factors that influence the performance of an aircraft.	Surfaces, surface ratios, aspect ratio, weight, W _{TO} /S, rapport ratio W _{TO} /HP, W _E /W _{TO} ratio, W _{FUEL} /WTO ratio, range, autonomy, endurance, take-off distance, vertical speed, horizontal speed, altitude, turning, G force.	Readings and exercises assigned by the instructor(s).
3.3 Make calculations to validate aircraft performance.	Aircraft descriptive forms, standard atmosphere, mass flow, volume flow, specific fuel consumption, flight time, filling time, flight distance, speed.	

Activity Period: 6 hours (approximately)

MODULE 4 – STUDY OF THE PROPELLER

Learning Objective	Content	Personal Study Activities
1.4 Explain the theory of propulsion for a propeller.	Speed increase ratio, advance ratio, thrust coefficient, power coefficient, speed power coefficient, efficiency.	Review Course Notes 280-265.
2.4 Explain the propeller geometrically.	- Plane of rotation, hub, blades of the propeller shaft, blade shaft, geometric pitch, experimental pitch.	Course Notes. Readings and exercises assigned by the
3.4 Explain the kinematics of the propeller.	- Ideal propeller, simplified theory of the blade element, effective pitch, slip	instructor(s).
4.4 Use vectors to explain the different modes of a propeller.	- Thrust, wind milling, transparency, feather, brake and reverse pitch.	
5.4 Distinguish the factors that influence traction, torque, power and performance of a propeller.	- Angle of attack, helix angle, pitch angle geometry, speed, RPM of the propeller, torque of the propeller, propeller diameter, blade plan form, blade profile, number of blades, solidity coefficient, critical engine, thrust asymmetry	
6.4 Make calculations related to propellers.	- Propulsive forces, torque, power, geometric pitch angle, experimental pitch angle, helix angle, tangential speed, speed.	

COURSE PLAN – PRACTICAL PART

Activity Period : 2 hours (approximately)

MODULE 1 – PERFORM WIND TUNNEL CALIBRATIONS

Learning Objective	Content	Personal Study Activities
1.1 Determine the	- Göttingen 30X30Wind Tunnel	Review
dynamic pressure in	- Aerolab 12D Wind Tunnel	Course Notes
the test chamber.	- Hampden 8X8 Wind Tunnel,	280-265
	- Design an assembly using a Pitot-static tube, total pressure, static	
	pressure, dynamic pressure, anemometer (airspeed indicator),	Course Notes
	observed speed, actual speed, theoretical speed, dynamic pressure	
	constant of the wind tunnel.	Readings and
		exercises
	- Formula : $P_D = \frac{1}{2}\rho V^2$	assigned by
	$p = \rho g \Delta h$	the
	: pV = mRT	instructor(s)
	- density, voltage, speed, anemometer (airspeed	
	indicator), barometer, pressure, manometer, thermometer,	
	temperature.	
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	F	
2.1 Determine the actual	- Formula : $P_D = \frac{1}{2}\rho V^2$	
speed in the test	$: p = \rho g \Delta h$	
chamber.	: pV = mRT	
	- density, voltage, speed, anemometer anemometer	
	barometer, , pressure, manometer, thermometer,	
	temperature.	

Activity Period: 6 hours (approximately)

MODULE 2 – STUDY OF DRAG AND PROFILE SHAPE

Learning Objective	Content	Personal Study Activities
1.2 Measure pressure distribution	Göttingen 30X30.Wind Tunnel, Disc, shapes ,cylinder, wheel, profiles, manometer, scale,	Review Course Notes 280-265
2.2 Determine the normal aerodynamic resultant	Hampden 8X8 Wind Tunnel, cylinder, manometer, shapes, profiles, scale	Course Notes
3.2 Determine the coefficient of pressure (CP)4.2 Determine the normal coefficient	Model aircraft and front shape of the fuselage: disc, cone, revolution paraboloid, manometer, balance	Readings and exercises assigned by the instructor(s)
5.2 Determine the form drag coefficient		
6.2 Determine the profile drag coefficient	- Formula: $FN = \Delta P * S$ - Formula: $FN = \frac{1}{2}\rho V^2 SC_N$ - Formula: $T = \frac{1}{2}\rho V^2 SC_X$	
7.2 Evaluate the thickness of the boundary layer		
8.2 Describe the shock waves produced in front of various shapes.	Supersonic Wind Tunnel, Shapes	
9.2 Describe the influence of speed on the shock waves.	Supersonic Wind Tunnel, Shapes	
10.2Determine the maximum speed of a supersonic airplane.	Model and photos	
11.2Determine the shape adapted to the speed and the situation for subsonic and / or supersonic speeds.	Formula: $Mach_{MAX} = 1/Sin(\theta)$	

Activity Period: 8 hours (approximately)

MODULE 3 – STUDY OF LIFT AND DRAG ON WINGS

Learning Objective	Content	Personal Study Activities
 1.3 Take pressure distribution measurements 2.3 Determine the normal aerodynamic resultant 3.3 Determine the coefficient of pressure (CP) 4.3 Determine the coefficient of lift (Cz) 5.3 Determine the position of the center of pressure (c.p.) 6.3 Distinguish the reactions to the distribution of the pressures on a wing profile following changes on the angle of attack. 7.3 Distinguish the reactions made to the distribution of the pressures on a wing profile following changes on the position of flaps (and slats) 	Aerolab 12 D Wind Tunnel, NACA 0012 wing, flight controls, manometers Hampden 8X8 Wind Tunnel, NACA 0020 wing, flight controls, manometers	Review Course Notes 280-265 Course Notes Readings and exercises as assigned by the instructor(s)
8.3 Distinguish reactions to the characteristic curves of a wing due to changes in aspect ratio.	- Göttingen 30X30 Wind Tunnel, - NACA 0012, 2412 wing, - Wing with aspect ratio (1,2,3,4,6, oo) Lift and drag - Dynamic pressure, speed - Lift and drag coefficient - Formula: T = ½ρV²SC _X - Formula: P = ½ρV²SC _Z - Stall angle - Fineness	Review Course Notes 280-265 Course Notes Readings and exercises as assigned by the instructor(s)
9.3 Distinguish reactions to the characteristic curves of a wing due to changes in the plan shape, of the relative thickness and relative camber.	- Reynolds number - Göttingen 30X30 Wind Tunnel, NACA 0012, 2412 wings - Aircraft models and wing profiles NACA 0012, 2412 Wings plan shapes: rectangular, trapezoidal, rectangular sweep, trapezoidal sweep, delta, elliptical - Same content as # 8.3	Review Course Notes 280-265 Course Notes Readings and exercises as assigned by the instructor(s)
10.3 Distinguish the reactions made to the characteristic curves of a wing following the use of flaps (and slats)	- Göttingen 30X30 wind tunnel, - Aircraft models and wings with profiles NACA 0012, 2412 Rectangular wing plan shape Same content as # 8.3	Review Course Notes 280-265 Course Notes Readings and exercises as assigned by the instructor(s)
11.3Calculate lift and drag. 12.3Measure lift and drag	- Lift and drag - Dynamic pressure - Lift and drag coefficients - Formula: P = ½ρV²SC _Z - Formula: T =½ρV²SC _X - C _Z /C _X ratio - Reynolds Number	Review Course Notes 280-265 Course Notes Readings and exercises as assigned by the instructor(s)

Activity Period: 4 hours (approximately)

MODULE 4 – STUDY OF MOMENTS

Learning Objective	Content	Personal Study Activities
1.4 Analyse the stresses generated by the control surfaces.	- Göttingen 30X30 wind tunnel - Model aircrafts and wings profiles	Review Course Notes 280-265.
2.4 Compare a stabilator with a standard empennage (tail).	NACA 0012, 2412 - Rectangular wing plan shape, Wing with flight controls, model	Course Notes. Readings and exercises as assigned
3.4 Compare with aircraft models, wing configurations (high and low) with standard tail and "T".	airplane wing with control surface, center of pressure, coefficient of moment, moment, speed. - Wings plan shapes: rectangular, trapezoidal, rectangular sweep, trapezoidal sweep, delta, elliptical	by the instructor(s).
	- Wing profiles NACA 0012, 2412, - Wings with aspect ratios (1, 2, 3, 4, 4W, 6, 6W and oo), wings with winglets Formula: $M_n = \frac{1}{2} \rho V^2 SCC_{Mn}$ - Fineness	

Activity Period: 4 hours (approximately)

MODULE 5 – STUDY OF PROPELLERS

Learning Objective	Content	Personal Study Activities
1.5 Distinguish the factors that influence thrust, power consumption and efficiency of a propeller. 2.5 Make calculations related to propellers. 3.5 Plot characteristic curves of propellers. 4.5 Interpret propeller characteristic curves. 5.5 Observe the different types of propellers.	Göttingen 30X30 wind tunnel Types of propellers, number of blades, geometric pitch, diameter, forward speed, tangential speed, mode, efficiency, power, propulsive force, speed (RPM), angle of advance, geometric pitch, real pitch, angle of attack, solidity coefficient. Airplane angle of inclination and lateral asymmetry of traction. Propulsive force, power, efficiency, speed-power ratio, advance ratio, speed. - Traction vs RPM, va and J - Power vs RPM, va and J - Efficiency vs RPM, va and J Thrust mode, transparency, brake, wind milling. - Lift, trust, drag et torq - Dynamic pressure, speed - Coefficient lift and drag - Coefficient thrust and power - Formula: - Drag = ½pv²SCx	

SYNTHESIS OF SUMMATIVE EVALUATION METHODS

Theory

Description of Evaluation Activity	Context	Learning Objective(s)	Evaluation Criteria	Due Date (approximate date assignment due or exam given)	Weighting (%)
Exam on basic variables and parameters affecting drag and lift	In class, individual, without any notes, Short development and multiple choice answers. Questions, comparisons and calculations based on the descriptive sheets of airplanes, calculations on the properties of fluids facing variables. Questions referring to homework and courses.	1.1, 2.1 & 1.2, 2.2 & 1.3, 2.3, 3.3	See table 1	Week 6	15%
Exam on drag and lift	In class, individual, without any notes, Short development and multiple choice answers. Questions, comparisons and calculations based on the descriptive sheets of airplanes, calculations on the properties of fluids facing variables. Questions referring to homework and courses.	3.1, 4.1 & 3.2, 4.2, 5.2, 6.2 & 1.1 to 3.3 (review)	See table 1	Week 11	20%
Exam on performances and propellers	In class, individual, without any notes, Short development and multiple choice answers. Questions, comparisons and calculations based on the descriptive sheets of airplanes, calculations on the properties of fluids facing variables. Questions referring to homework and courses.	1.3, 2.3, 3.3 & 1.4, 2.4, 3.4, 4.4, 5.4, 6.4 & principal objectives	See table 1	Week 15	25%

SUB-TOTAL: 60%

Practical Work

Description of Evaluation Activity	Context	Learning Objective(s)	Evaluatio n Criteria	Due Date (approximate date assignment due or exam given)	Weighting (%)
Exam on: - wind tunnel calibration, - pressure zones, - form and profile drag	In class, individual, without any notes. The exam includes manipulations, calculations and written reports. Short development and multiple choice answers. Questions, comparisons and calculations based on data tables obtained from laboratories, calculations on the properties of fluids versus variables. Questions referring to laboratories of weeks 1 to 4.	1.1 to 2.1 & 1.2 to 11.2	See table 2	Week 5	10
Exam on: - Lift and Cz of the wing, - Drag and Cx of the wing, - the effect of: - aspect ratio, - the Reynolds number	In class, individual, without any notes. The exam includes manipulations, calculations and written reports. Short development and multiple choice answers. Questions, comparisons and calculations based on data tables obtained from laboratories, calculations on the properties of fluids versus variables. Questions referring to laboratories of weeks 6 to 9	1.3 to 12.3 & (1.1 à 2.1 & 1.2 à 11.2) (review)	See table 2	Week 10	15
Exam on : - moments - wing plan shapes, - drag and lift of the entire aircraft, - chart drag / speed - propellers	In class, individual, without any notes. The exam includes manipulations, calculations and written reports. Short development and multiple choice answers. Questions, comparisons and calculations based on data tables obtained from laboratories, calculations on the properties of fluids versus variables. Questions referring to laboratories of weeks 1 to 14.	1.4 & 3.4 & 1.5 to 5.5 & principal objectives	See table 2	Week 15	15

SUB-TOTAL: 40% TOTAL: 100%

Table 1 Evaluation criterias

- A) Correct interpretations of performance factors.
- B) Correct enumeration of Performance Factors.
- C) Correct distinction of the factors involved in the flight and performance elements. (T and 172 vs 172)
- D) Accuracy of justification when quantifying performance factors. (=)
- E) Correct comparison between factors and variables.
- F) Appropriate selection of units of measurement.
- G) Accuracy of calculations.
- H) Accuracy of comparisons.
- I) Appropriate mapping of principles and phenomena.
- J) Accuracy of established links considering the issue.
- K) Evaluation and truthful analysis of the quantitative value of the response.
- L) Validity of the approach in the resolution of numerical, technical or situational problems.
- M) Precise use of terminology.

Table 2 Evaluation criterias

- A) Accuracy in the manipulations.
- B) Accuracy during the acquisition of data..
- C) Accurate interpretation of the data.
- D) Correct choice of units of measurement.
- E) Accuracy of calculations.
- F) Appropriate mapping of principles, phenomena and results.
- G) Accuracy in the use and interpretation of graphs.
- H) Evaluation and truthful analysis of the quantitative value of the answer.
- I) Accuracy of justification when quantifying performance factors. (=) Vs AR
- J) Correct Enumeration of Performance Factors.
- K) Accuracy of comparisons.
- L) Accuracy of the links established mapping considering the problem.
- M) Validity of the approach in the resolution of numerical, technical or situational problems.
- N) Precise use of terminology.

REQUIRED MATERIAL

- PDF documents for class and Labs available on OneDrive.
- SHARP EL 531 Calculator

MEDIAGRAPHY

- 1) CHUAN-TAU Edward et ROSKAM, Jan Dr., <u>Airplane Aérodynamics</u>, Roskam Aviation and Engineering Corporation, Lawrence, Kansas, University of Kansas, 1990, 550 p.
- 2) HURT, H. H., Aerodynamics for naval aviators, USA, University of Southern California, 1965, 416 p.
- 3) KERMORE, A.C., <u>Mécanique du vol</u>, Translation by Didier Feminier, Outremont, Modulo, C 2000, 447 p.
- 4) CAUVIN, D., Aérodynamique mécanique du vol, Paris, Institut aéronautique Jean Mermoz, 1979, 281 p.
- 5) GILES, R.V., Low-Speed Wind Tunnel Testing, USA, John Wiley & Sons, Mcgraw-Hill, 1984, 535 p.
- 6) GILES, R.V., <u>Mécanique des fluides et hydrauliques</u>, cours et problèmes, Série Schaum, Toronto, Mcgraw-Hill, 1975, 272 p.
- 7) Rice, Handbook of airfoil sections for light aircraft,
- 8) https://www.youtube.com/channel/UC-795KiMElgoKZ7SAx77Mjw/featured

REQUIREMENTS TO PASS THE COURSE

1. Passing Mark

The passing mark for this course is 60% (PIEA, article 5.1m)..

2. Attendance for Summative Evaluations

Attendance to summative evaluations is mandatory (PIEA, article 5.2.5.1).

3. Submitting Assignments

The assignment requested by a teacher must be handed over on the date, place and time indicated. The penalties incurred for delays are established according to the departmental rules (PIEA, article 5.2.5.2).

In case of delay the penalties are:

- See the section "Departments Rules" at the following address:

http://guideena.cegepmontpetit.ca/regles-des-departements/

4. Presentation of Written Work

The student must comply with the "Standards for the physical presentation of written works" adopted by the Cégep. Failure to comply with these standards may delay the acceptance of the work or affect the grade awarded. These standards are available in the "Standards for the physical presentation of written works" adopted by the Cégep. Failure to comply with these standards may delay the acceptance of the work or affect the grade awarded. These standards are available in the Quick Links, Libraries section under the heading "Methodology" of the Cégep's Documentation Centers, at www.cegepmontpetit.ca/normes.

The departmental penalties for non-compliance with the physical presentation standards (PIEA, article 5.3.2) are: See the section "Departments Rules" at the following address: http://guideena.cegepmontpetit.ca/regles-des-departements/Links, Libraries section under the heading "Methodology" of the Cégep's Documentation Centers, at www.cegepmontpetit.ca/normes.

The departmental penalties for non-compliance with the physical presentation standards (PIEA, article 5.3.2) are: See the section "Departments Rules" at the following address: http://guideena.cegepmontpetit.ca/regles-departments/

METHODS OF COURSE PARTICIPATION

The following rules must be respected in the classroom and laboratories:

In the classroom:

- Food, drinks cell phones, pagers, MP3 players, IPODs, cameras and any similar devices are prohibited.
- Students must keep the classroom clean and tidy.

In the laboratory:

- Food, drinks cell phones, pagers, MP3 players, IPODs, cameras and any similar devices are prohibited.
- Students must keep the classroom clean and tidy.
- Flames (from a lighter, matches) are prohibited.
- ENA overalls (jumpsuit) and safety shoes or boots are **mandatory**. Students who are not properly dressed will not be admitted to the workshop or hanger and the absence will be recorded in their file.
- Safety glasses are mandatory for working with wind tunnels and must be at hand in the hangars.
- Students may not use aircraft or equipment without authorization from an instructor and proper operating instructions must be respected.
- It is prohibited to get up on a stool, a table, a workbench or a wind tunnel.
- There must never be more than 3 students per team unless otherwise indicated by the instructor and there must never be more than one team per workbench or aircraft.
- Students must clean the workbench and put equipment away after being used; the premises must be left clean and organized.

OTHER DEPARTMENTAL REGULATIONS

Students are encouraged to consult the website for the specific regulations for this course: http://guideena-en.cegepmontpetit.ca/department-rules/

INSTITUTIONAL POLICIES AND REGULATIONS

All students enrolled at Cégep Édouard-Montpetit must become familiar with and comply with the institutional policies and regulations. In particular, these policies address learning evaluations, maintaining admission status, French language policies, maintaining a violence-free and harassment-free environment, and procedures regarding student complaints. The French titles for the policies are: *Politique institutionnelle d'évaluation des apprentissages* (PIEA), la *Politique institutionnelle de la langue française* (PILF), *la Politique pour un milieu d'études et de travail exempt de harcèlement et de violence* (PPMÉTEHV), les *Conditions d'admission et cheminement scolaire*, la *Procédure concernant le traitement des plaintes étudiantes dans le cadre des relations pédagogiques*.

The full text of these policies and regulations is accessible on the Cégep web site at the following address: http://www.cegepmontpetit.ca/ena/a-propos-de-l-ecole/reglements-et-politiques and www.cegepmontpetit.ca/ipesa. If there is a disparity between shortened versions of the text and the full text, the full text will be applied and will be considered the official version for legal purposes.

APPENDIXES

None.