SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: RECREATION AND PHYSICAL TRAINING

Code No.:	REC 100	Semester	:	ONE
Program:	AVIATION			
Instructor:	ANNA MORRISON, B.P.E.			
Date:	SEPTEMBER 1992 Previou	us Outline:	Ja	nuary 19 92

APPROVED:	. <i>y</i>	£> ^,'As/^^	DATE:	Wjk. 7	• / <r>/?2</r>
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Recreation and Physical Training REC 100 A. Morrison

% OURSE DESCRIPTION

The intent of this course is to enhance the students' knowledge and skills in the areas of fitness and health. As understanding of the many benefits and components of fitness is gained, it is intended that students will choose to adopt a healthy life-style.

STUDENT PERFORMANCE OBJECTIVES

Upon successful completion of this course students will be able to:

- a. identify the benefits of fitness and why health is a matter of choice.
- b. identify the five components of fitness and apply the FITT formula for each of them.
- c. identify the many benefits of fitness, both physical and psychological.
- d. demonstrate an understanding of basic anatomy and weight training principles by developing their own program to improve muscular strength and/or muscular endurance.
- e. demonstrate an understanding of safe exercise practices and special precautions related to vulnerable anatomical structures.

apply sound nutritional principles to enhance fitness and overall health.

g. demonstrate an understanding of safe weight (fat) management techniques.

TOPICS TO BE COVERED

- 1. Introduction to Fitness and Health
- 2. Muscular Strength and Muscular Endurance
- 3. Cardiovascular Endurance
- 4. Flexibility
- 5. Nutrition
- 6. Weight (Body Composition) Management

LEARNING ACTIVITIES

1.0 Introduction to Fitness and Health

Upon successful completion of this unit students should be able to:

1.1 Explain why health is a matter of choice.

Overhead Fantastic Lifestyle Questionnaire Overhead

1.2 Describe how death and disease patterns are changing

RESOURCES

LEARNING ACTIVITIES

1.3	Define health-related and performance-related fitness	Overhead Handout
1.4	Describe the components of health-related fitness.	Overhead Handout
1.5	Apply the FITT formula to each of the five components of health-related fitness.	Overhead Handouts
1.6	Identify the risk factors of cardiovascular disease and the role of exercise in reducing the risk of cardiovascular disease	Overhead Overhead Handout
1.7	Identify the role of exercise in preventing and/or managing other chronic diseases.	Overhead Handout
1.8	Identify benefits of fitness	
1.9	Identify reasons for "dropping out"	Overhead
1.10	Describe motivational strategies to help you stick with an exercise program.	Overhead
1.11	Describe tests for each component of health related fitness.	
2.0	Muscular Strength and Muscular Endurance	
	Upon successful completion of this unit the student should be able to:	
2.1	Describe the specific benefits of weight training	Weight Tra Manual
γ	Degavibe and demonstrate the generativity and	Overheads

- 2.2 Describe and demonstrate the concentric and eccentric phase of muscular contraction
- 2.3 Define agonist and antagonist as they relate to muscle groups
- Discuss the strength development of men compared 2.4 to women
- 2.5 Discuss anabolic steroid use and the potential side-effects
- 2.6 Discuss the importance of warming-up and cooling-down when weight training
- 2.7 Describe and demonstrate a proper warm-up and cool-down
- Demonstrate an understanding of various weight 2.8 training myths and fallacies
- 2.9 Demonstrate understanding of safe weight training practices
- 2.10 Identify and locate the major muscle groups of the body
 - 11 Demonstrate the actions, weight training exercises, and stretches for each major muscle group
 - 12 Explain the principles of training including Specificity, Progressive Overload, Rest, Adaptation, etc.

Demonstration Handouts Demonstration Handouts

Training

Overheads Weight Training Manual

RESOURCES

LEARNING ACTIVITIES

3.0 Cardiovascular Endurance

Upon successful completion of this unit the student should be able to:

- 3.1 Explain the differences between aerobic and anaerobic activities
- 3.2 Demonstrate methods for determining one's Target Heart Rate zone for exercise
- 3.3 Discuss the importance of warming-up and Overheads cooling-down when participating in cardiovascular endurance training
- 4.0 Flexibility

Upon successful completion of this unit the student should be able to:

- 4.1 Describe factors limiting flexibility
- 4.2 Describe and recognize high-risk flexibility exercises
- '.3 Explain the relationship between flexibility and Overhead lower back pain
- 4.4 Compare static versus dynamic stretching
- 4.5 Describe the stretching technique called proprioceptive neuromuscular facilitation

5.0 Nutrition

Upon successful completion of this unit, students should be able to:

- 5.1 Identify types of sugars and provide some examples of each
- 5.2 Differentiate between soluable and insoluble fibre and give some examples of each
- 5.3 Discuss the difference between saturated and unsaturated fat and discuss their effects on cardiovascular disease
- 5.4 Identify the two types of unsaturated fat and describe their effect on cardiovascular disease

Handout -"The Basics of Nutrition"

RESOURCES

Video

Overheads Handouts

Handout

Overhead

Overhead

Demonstration

Demonstration

Demonstration

LEARNING ACTIVITIES

List food sources that are rich in 5.5 mono-unsaturated fat and polyunsaturated fat

- 5.6 Describe the role of Omega - 3 fatty acid on cardiovascular disease
- 5.7 Discuss the major functions of protein
- 5.8 Discuss the guidelines for healthy eating

6.0 Weight Control

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Upon successful completion of this unit, the student should be able to:

	1 2 3	Define body composition Define essential and storage fat Describe the relationship between body	Overhead Overhead Overhead
		composition and wellness Explain the relationship of exercise and fat	Overhead
:	:	reduction	Overhead
		Describe cycle dieting and discuss its	
		effectiveness as a weight loss	
	6.6	technique	Discussion
		Describe the guidelines that should be followed	
	6.7	by the underweight when they attempt to gain weight	Discussion
		Evaluate the effectiveness of common weight loss gimmicks and "torture tools"	

RESOURCES

Handout -"The Basics of Nutrition"

Handout -"Canada's Food Guide" Overhead

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METHODS OF EVALUATION

Written Test #1 Written Test #2		40% 40%
Assignment #1 (pe I	ersonal fitness program)	20%

100%

NOTE

Late assignments will be penalized 10% per day and will not be accepted after 7 days beyond the due date.

Attendance is mandatory and will be monitored by the Aviation Department,

COLLEGE GRADING POLICY

90 - 100% = A+ 80 - 89% = A 70 - 79% = B 60 - 69% = C BELOW 60% = R (Repeat Course) = U (Unsatisfactory)

SPECIAL NEEDS

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

NOTE

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.