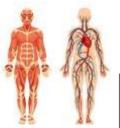
Cambridge National Sport Science (Award) – Curriculum Map



LO1 – key components of the musculoskeletal and cardio-respiratory systems, their functions and roles

- Musculoskeletal system Key components, functions
- Cardio-respiratory system Key components, functions



RO43 - The body's response to physical activity

- Coursework based unit (4 tasks, 60 marks)
- Key components, roles, functions and importance of musculoskeletal and cardio respiratory systems
- Short and long term responses of physical activity on musculoskeletal and cardio respiratory systems



Progress into Year 11 and onto the certificate



- Aerobic and Anaerobic (differences, examples)
- Components of Fitness (CV endurance, strength, power, agility, balance, flexibility, Muscular endurance)
- Training methods (CV, Resistance, Power, Flexibility, Agility, Balance)

LO3 - Be able to conduct fitness tests

Maximal and Submaximal (differences, examples)

Unit 3

- Test protocols (CV endurance, strength, power, agility, balance, flexibility, Muscular endurance)
- Test results (compare to normative data)



LO4 – **Develop fitness** training programme

- Designing a programme (individual details, aims/goals, targets, duration principles of training, suitability)
- **Evaluating a programme** (measurement, reflection, improvements)

LO1 -Principles of training in a sporting context - **Specificity** (Sport,

- muscles)
- Progression (FITTA)
- Reversibility (Injury/Illness)
- Moderation (Age, Gender, experience)
- Variance (boredom)

Summer Term

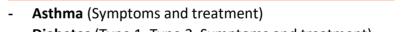
LO4 – How to respond to common medical conditions

- **Epilepsy** (Symptoms and treatment)





Attend revision sessions



- **Diabetes** (Type 1, Type 2, Symptoms and treatment)

LO3 – How to respond to injuries in a sporting context

- Types (Acute and Chronic)
- **Soft tissue injuries** (Strains, Sprains, fractures, cramp)
- Overuse injuries (Tendonitis, Tennis elbow, Shin splints)
- **Concussion and Abrasions** (Grazes, cuts and blisters)

LO2 – How appropriate warm up and cool down

Planning (Environmental factors, suitability, individuals) Warm ups (5 stages, physical benefits, psychological

Contusions/ Haematomas (bruises)

routines can help to prevent injuries

benefits)

- **Injuries related to children** (Osgood-Schlatters disease)
- Treatments (RICE, SALTAPS, Slings/splints, bandages/taping, hot/cold, EAP)

R042 - Applying principles of training

- Coursework based unit (5 tasks, 60 marks)
- Principles of training, Training methods, Fitness testing, Training programme and review



Unit 2

RO41 – ACTUAL EXAM

- 1st week back after Christmas
- Exam crammer and briefing
- Home revision
- 1 hour (60 marks)

REVISE OVER

CHRISTMAS!

CNAT Sport PPE/Mock exam

- Revision lessons
- Home revision
- 8 mark question practice
- 1 hour (60 marks)



Autumn **Term**

Introduction to Sport Science

Expectations of the course Overview of what's ahead

RO41 – Reducing the risk of sports injuries

Spring

Term

- EXAM Component of the course
- Exam usually first week back after Christmas holidays
- 1 hour (60 marks)



LO1 - Different factors which influence the risk of injury

- Extrinsic factors (Type of activity, coaching, Environmental factors, Equipment, Safety hazards)
- Intrinsic factors (Physical preparation, Individual variables)
- Psychological factors (Motivation, Aggression, Arousal)
- Posture (Causes, Pelvic tilt, Kyphosis, Round shoulders, Lordosis, Scoliosis)



Cool downs (2 stages, Physical benefits)





What is CNAT Sport Science?