

Course Title: **Aviation Physiology**

Course Code: **PARA801**

Descriptor Start Date: **27/02/2017**

POINTS: **30.00**

LEVEL: **8**

PREREQUISITE/S:

COREQUISITE/S:

RESTRICTION/S:

LEARNING HOURS

Hours may include lectures, tutorials, online forums, laboratories. Refer to your timetable and course information in Canvas for detailed information.

Total learning hours: 300

PRESCRIPTOR

Develops an advanced knowledge base for aeromedical retrieval through the in-depth examination of aviation physiology.

LEARNING OUTCOMES

1. Synthesise knowledge of the complex physiological effects of altitude.
2. Critique scientific research that informs aviation physiology.
3. Present work at the appropriate academic standard.

Disclaimer: Course descriptors may be amended between teaching periods/semesters

CONTENT

- Atmospheric changes
- Gas Laws
 - Boyle's Law
 - Charles' Law
 - Henry's Law
 - Dalton's Law
 - Graham's Law
- Physiological effects of altitude
- Hypoxia
- Stressors of flight
- Bio-dynamics of flight
- Fatigue/Third Spacing
- Circadian rhythms in transmeridian and long haul flights

LEARNING & TEACHING STRATEGIES

The student will achieve the learning outcomes in online interactive study and self-directed learning. A problem-based learning approach will be used. There are 4 x MCQ formative assessments. These are designed to expand your knowledge base and provide reflective learning.

ASSESSMENT PLAN

Assessment Event	Learning Outcomes
Literature review (5000 words)	LO1, LO2, LO3

Grade Map

MAP1

A+ A A- Pass with Distinction
B+ B B- Pass with Merit
C+ C C- Pass
D Fail

Overall requirement/s to pass the course:

Students must achieve all learning outcomes in order to pass this course.

LEARNING RESOURCES

Martin, T. (2006). *Aeromedical Transportation - A Clinical Guide* (2nd ed.). Ashgate Holleran, R. (2010). *ASTNA Patient Transport: Principles and Practice* Mosby

For further information, contact: Te Ara Hauora A Putaiao - Faculty of Health & Environmental Science

Principal Programme: AK3487, Postgraduate Diploma in Health Science

Related Programme/s: AK3484 Postgraduate Certificate in Health Science
AK3485 Master of Health Science
AK3487 Postgraduate Diploma in Health Science
AK3733 Master of Health Practice

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