

Algebra Refresher

Course title – Intitulé du cours	Algebra Rfresher
Level / Semester – Niveau /semestre	M1/S1
Teacher – Enseignant responsable	Blanchet Adrien
Lecture Hours – Volume Horaire CM	15h
TA Hours – Volume horaire TD	
TP Hours – Volume horaire TP	
Course Language – Langue du cours	Anglais
TA and/or TP Language – Langue des TD et/ou TP	Anglais

Teaching staff contacts – Coordonnées de l'équipe pédagogique :

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Course Objectives – Objectifs du cours :

The planned program is the following:

Day 1:

- vector spaces, vector sub-spaces
- linear independence, spanning family, basis

Day 2

- linear map
- Matrix (operations)

Day 3

- rank nullity theorem
- diagonalisation

Day 4

- bilinear forms, quadratic forms
- scalar product

Day 5

- orthonormal basis
- orthogonal projection

Prerequisites – Pré requis :

This lecture has the aim to refresh these notions that the students are supposed to know.

Grading system – Modalités d'évaluation :

No exam

Distance learning – Enseignement à distance :

Interactive virtual classrooms