

Algebra Refresher

Course title - Intitulé du cours	Algebra Refresher
Level / Semester - Niveau / semestre	M1 / S1
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	BLANCHET ADRIEN
Other teacher(s) - Autre(s) enseignant(s)	
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Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	15
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's 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