## $ALGEBRA\ NOTES \qquad \quad Peter\ Gylys\text{-}Colwell$

Modules		
Projective Modules		

Injective Modules

Flat Modules

## **Torsion Free Modules**

All free modules are torsion-free.

 $\mathbb Q$  as a  $\mathbb Z\text{-module}$  is torsion-free but not free