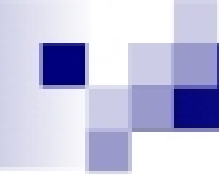





# Physics 213

## General Physics

### Lecture 3

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- Last Meeting: Static Charges, Coulomb's Law, Electric Forces, Electric Field, Conductors
  - Today: Gauss's Law, Electric Energy and Potential

# Electric Flux

Field lines penetrating  
an area  $A$   
perpendicular to the  
field

The product of  $EA$  is  
the flux,  $\Phi$

In general:

$$\Phi_E = EA \cos \theta$$

