

Uses of Greek Letters and Other Symbols in CS 311		
letter/symbol	name	typical uses in CS 311
α	alpha	
β	beta	
γ	gamma	
Γ	Gamma	
δ	delta	
Δ	Delta	
ϵ	epsilon	empty string, small positive real number
ζ	zeta	
η	eta	
θ	theta	
Θ	Theta	
ι	iota	
κ	kappa	
λ	lambda	
μ	mu	
ν	nu	
ξ	xi	
o	omicron	
π	pi	3.14159265...
Π	Pi	product
ρ	rho	
σ	sigma	
Σ	Sigma	alphabet, sum
τ	tau	
Υ	Upsilon	
φ	phi	
Φ	Phi	
χ	chi	
ψ	psi	
Ψ	Psi	
ω	omega	
Ω	Omega	lower bound $\Omega(f(n))$
$*$	star	Σ^* = set of all finite words from Σ
$\Rightarrow \Leftarrow$	Contradiction	contradiction in a proof by contradiction
\cong	iso	isomorphic
\emptyset	emptyset	emptyset
\equiv	equiv	logically equivalent
\exists	exists	there exists
\forall	forall	for all
iff	iff	if and only if
$f : A \rightarrow B$	rightarrow	f is a function from A to B
\mapsto	mapsto	$a \mapsto b$ means that the map takes a to b
log	log	log base 2
\wp	power set	$\wp(S) = \{A \mid A \subseteq S\}$