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UF FLORIDA Fish Diversity

- Class Agnatha (jawless fishes)
- Class Chondrichthyes (sharks, skates, rays)
- Class Osteichthyes ("boney fish")

Fishes are the most diverse group of vertebrates

UFFLORIDA Fish Diversity

Class Agnatha (jawless fishes): Lamprey, hagfish









Fish Diversity

UF FLORIDA









UF FLORIDA Viva la difference

- Renal, pancreatic, rectal
- Bouyancy (swim bladder vs liver)
- Sensory (LL, tastebuds, barbels, weberian ossicles, pseudobranch, smell)
- Teeth (max, premax, vomer, palatine, hyoglossal)
- Skin (mucus, taste, alarm, absorption)
- Gills (respiration, ionic balance, absorption)
- Communication (alarm, sound, color)
- Gut (+/- stomach, length, pyloric caecae, pneumatic duct)
- Electric (reception and production)
- Light production
- Reproduction



















































Perilymphatic sac (membraneous labyrinth)

Intercalarium

0

Tripus

Claustrum

Scaphuim

UF FLORIDA



Swim bladder UF FLORIDA

- sound (2-way), bouyancy
 physostomous / physoclistis
 active secretion / rete mirable
 passive secretion / pneumatic duct, oval gland











































































UF





















UF FLORIDA	Sex in Fishes	
t	Double baited anglerfish	

UF FLORIDA	Sex in Fishes	
D	ouble baited anglerfish	