ENT 425: Flowchart for Insects vs. Other Arthropods

-invertebrate (no backbone);
-exoskeleton?
-segmented body?
-jointed limbs?

No → All Other Animals

Yes to all → Phylum Arthropoda

-6 walking appendages (legs)?
-thorax 3 consolidated body segments?

No → All Other Arthropods
(Hexapoda; Crustacea; Pauropoda; Diplopoda; Chilopoda; Symphyla; Arachnida; Xiphosura; Pycnogonida)

Yes → Superclass Hexapoda

-tarsi subsegmented?
- ectognathous?
- female ovipositors?

No → All Other Hexapods
(Collembola; Protura; Diplura)

Yes → Class Insecta
(28 Orders)