COMD7309 - Neural Correlates of Human Cognition: Functional Localization

COMD 7309 (HCS 7309) Neural Correlates of Human Cognition: Functional Localization (3 semester credit hours) This class will discuss the correlation of brain activation patterns and lesions with cognitive deficits and how it provides a human brain map of the essential anatomy underlying specific cognitive functions. The areas of cognition to be covered using this approach include language, episodic memory, semantic memory, working memory, aspects of visuospatial functions, and higher-order motor planning. This knowledge base provides a key framework to combine with the findings of functional neuroimaging (fMRI, PET) in understanding how humans think. Cognitive deficits in patients (e.g., amnesia, aphasia, etc.) will be explained within this framework. Prerequisites: BBSC majors only and department consent required. (3-0) Y