Department of Software Engineering
Building 70 # 1690
Phone: (585) 475-5461

Application Domain Description

UNDERGRADUATE

Name of domain: Human Language Technology & Computational Linguistics
Description of domain and relevance of software engineering Many software applications involve processing natural language text or speech data. This application domain provides exposure to computational linguistics and language science. Students gain knowledge and practical skills in computational natural language processing and technical linguistic analysis, useful for analytics and modeling with language data and for developing, evaluating, and maintaining language technology software. Students can earn a minor in language science with two additional electives.

Courses (Select three of the following)		
Course number	*Course title*	*Prerequisites*
ENGL 310	Introduction to Language Science	One First Year Writing Intensive course or equivalent.
ENGL 351	Language Technology	One First Year Writing Intensive course or equivalent.
ENGL 481	Introduction to Natural Language Processing	ENGL 351 *Language Technology* or a programming class (or similar course with instructor's consent), and a FYWI course (or another writing course).
ENGL 482	Language and Brain	One First Year Writing Intensive course or equivalent.
ENGL-5XX (in the process of being approved as a regular course)	Advanced Topic in Computational Linguistics	ENGL 481 *Introduction to Natural Language Processing* or a similar course with computing focus with instructor's consent

Domain Prerequisites	
Course number	*Course title*

Considerations **Minor in *Language Science*:** Take See the English Department's website for more information. Before you start on an application domain you should work through the impacts on your schedule. There may be a need to coordinate your co-op blocks based on the terms in which courses are typically offered as well as considering course pre-requisite chains required within the application domain. Be sure to check with the sponsoring department to obtain the latest information on course prerequisites, scheduling, and registration constraints. Before embarking on a minor you should meet with the department sponsoring the minor to review their current minor requirements, register for the minor, and review scheduling strategies.
Last reviewed: 11/12/13