**COMP-8730. Natural Language Processing and Understanding**

**Learning Outcomes**

Last Updated: December 29, 2020

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| **Learning Outcomes**  At the end of the course, the successful student will know and be able to: | **Characteristics of a University of Windsor Graduate**  The University of Windsor graduate will have the ability to demonstrate: |
| Explain natural language processing methods based on textual content for:   * text classification, * text summarization, * text clustering * sentiment analysis, * topic modelling, * query-based information retrieval * information extraction   and apply them to concrete, practical problems. | **A.** the acquisition, application and integration of knowledge |
| Define natural language processing methods based on textual content for solving:   * text classification, * text summarization, * text clustering * sentiment analysis, * topic modelling, * query-based information retrieval * information extraction   problems. | **B.** research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy) |
| Solve practical \*\* problems by using and combining several natural language processing concepts or strategies. | **C.** critical thinking and problem-solving skills |
| Write coherently, concisely, and clearly in a range of formats and for a variety of audiences. | **D.** literacy and numeracy skills |
| Explain the societal, legal and ethical implications of natural language processing methods and solutions. | **E.** responsible behaviour to self, others and society |
| Present research work to computer science audiences and answer questions. | **F.** interpersonal and communications skills |
|  | **G.** teamwork, and personal and group leadership skills |
| Design new natural language processing approaches. | **H.** creativity and aesthetic appreciation |
| Identify how good theoretical and practical knowledge of problems leads to efficient natural language processing and understanding solutions. | **I.** the ability and desire for continuous learning |