

## Information Retrieval: GLIS 616-001 Fall 2020

(\*Prerequisite: GLIS 617 Information System Design)

**Time:** Mon Sept 2-Dec 7, 2020 14:35-17:25pm / **Location:** virtual

**Instructor:** Amie Wright [amie.wright@mcgill.ca](mailto:amie.wright@mcgill.ca) / Office Hrs: Appt upon request

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### Calendar Description:

Theoretical and applied explanation of information retrieval in a variety of digital environments and in relation to both textual and multimedia data: Information retrieval capabilities, information-seeking models, interface design issues, information visualization and information system evaluation criteria.

### Learning Outcomes:

1. To understand the basic principles of constructing and evaluating information retrieval systems - building foundational knowledge of IR in theory and in professional practice
2. To understand IR topics and definitions including: Information Retrieval (IR) & Information Seeking (IS), Metadata, OPAC, Relevance Ranking, Controlled Vocabulary, Taxonomies in IR, Natural Language Processing (NLP)
3. To understand how IR concepts are implemented in various digital information environments including traditional (archives, databases, libraries) and emerging (AI, citation software, digital humanities, social media, video games)

### Assessment\*

Assignment/Project/Quiz/Exam	% of grade	Ind or Group
Class Participation (via weekly online discussions)	20%	Ind
Assignment #1: Define and Discuss a Topic in IR including a case study	15%	Ind
Assignment #2: Group Project - Python / Power Bi	15%	Group
Assignment #3: Lead Class Discussion	15%	Ind
Final Assignment / Project	35%	Ind

### Required Course Readings\*:

- Manning, C. D., Raghavan, P. & Schütze, H. (2008). *Introduction to information retrieval*. New York: Cambridge University Press. Text is available via the McGill bookstore, McGill Library (3 hr course reserve) or available online here ([PDF](#))
- Individual articles will be listed on myCourses and are freely available from McGill University Libraries.

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### **Additional Comments (if needed)**

*\*note that readings and assignments can vary from year to year; updated detailed course outlines will be available on myCourses*