Course Objectives

• Understand concepts, motivation, goals underling knowledge graphs (KGs)
• In depth understanding of Semantic Web (SW) languages and tools
• Be able to create and use ontologies using SW languages
• Understand the different kinds of KG reasoning
• Create, consume and manipulate KG data
• Know alternatives: XML, JSON, Schema.org, Google Knowledge Graph, ...
• Ability to define and implement a KG project
Grading

• Grades will be based on homework, quizzes, exams and a project
• 5-6 short **homework** assignments
  – Submissions will be via github classroom
• Occasional online Blackboard **quizzes** focused on readings
• In class **midterm** exam near middle of class, comprehensive **final** at end
• **Project** can be individual or small groups and will have a **proposal** and **final report**
• Probable weighting: 40% homework, 15% project, 10% quizzes, 15% midterm, 20% final
Instructor availability

Instructor: Professor Tim Finin

• Pronounced like fine + in, not like fin + in
• Office: ITE329, finin@umbc.edu, phone:410-455-3522
• Official office hours: by arrangement
• Drop in whenever my door is open
• Direct general questions (i.e., those that other students may also have and that a Web search can’t answer) to Piazza first
• We’ll try to respond to postings on the discussion list or private email messages within 24 hours
Programming, etc.

• Homework requires using various systems/tools
• We’ll use GitHub for started code & submission
• Some will require programming; can be done in any language (e.g., Java, Python); Python preferred
• Examples demonstrated in Unix (Linux or MAC OS X); most can be made to work on Windows
• A web server on your computer may be useful