COURSE INFORMATION

Agent Based Systems

Course Title

CS539

Course Number

Fall 2016

Semester

Online

Meeting Time(s)

Online: D2L

Meeting Location(s)

Please use "online" or site name as appropriate if distance education

INSTRUCTOR INFORMATION

Henry Hexmoor

Instructor Name

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e-mail

T 12:00-3:00

Office Hours

Faner 2130

Office Location

(618) 453-6047

Office Telephone

COURSE GOALS AND TOPICS

Brief Summary of Course Goals and Topics

Agent-based systems are commonplace in environments characterized by distributed, collaborative, and autonomous units. The techniques and algorithms of agent-based systems and multiagent systems are presented. Real world applications are explored. A series of assignments will deepen student appreciation.

TEXTBOOKS AND MATERIALS

Required Textbook(s)


Algorithmic, Game-Theoretic, and Logical Foundations, Cambridge University Press.

Required Materials and Equipment

Recommended Textbook(s)

Recommended Materials and Equipment
ASSIGNMENTS AND EVALUATIONS

Type and Number of Planned Assignments

Five assignments and one programming project

Methods of Evaluation

reports

COURSE SCHEDULE OVERVIEW

General Outline of Course Topics

1. Foundational Topics
2. Norms and E-institutions
3. Auctions
4. Social Capital
5. Coalitions