M2429: Intro to Artificial Intelligence

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TENTATIVE SYLLABUS

"don't shoot me if this changes drastically" -adam hartz

Week 01 (July 12): *Introduction*
- Administrivia
- What is AI?
- Course Layout
- Math and Physics Primer
- Python and Why It is Awesome

Week 02 (July 19): *The Illusion of Intelligent Movement*
- Seek (+ Arrive and Flee)
- Choosing Your Target Carefully
- How Not to Run Into Things
- Flocking

Week 03 (July 26): *Search*
- Depth-First Search
- Breadth-First Search
- Alpha-Beta and Minimax

Week 04 (August 2): *More Search*
- R.F.F. Search: Dijkstra and A*

Week 05 (August 9): *Finite State Machines*
- Intro to FSM's and Why They are So Widely Used

Week 06 (August 16): *Final Project In-Depth Discussion, and Lab Time*
- Hang out, write code, and ask for help

Week 07 (August 23): *Final Project Lab Time*

Week 08 (August 30): *Final Project Tournament*