

The background of the slide features a dark, abstract pattern of blue and white smoke or liquid droplets, resembling a nebula or a microscopic view of fluid dynamics. It has a textured, granular appearance with varying shades of blue and white against a black background.

MGT 3745 B: business programming

AGENDA

August 22, 2023

course introduction



- who is prof. m

- syllabus speed run

- quick discussion re:
student expectations

UCONN
UNIVERSITY OF CONNECTICUT

Georgia State University | PERIMETER COLLEGE

GT Georgia Institute
of Technology

UF UNIVERSITY of
FLORIDA

IOWA STATE
UNIVERSITY



mongoDB UNIVERSITY of WASHINGTON

Stanford

Berkeley
UNIVERSITY OF CALIFORNIA

aws 
accenture



M C S W A I N



Course Objectives

Business programming emphasizes solving wicked business problems and, using computational thinking combined with other methodologies, documenting, developing, and managing (en)coded solutions

Best correlating factors for success:

Show up

Turn stuff in on time

Ask clarifying questions or exception consideration BEFORE the due date

Do the BEST you can on EACH assignment

DO NOT COPY CODE OR WRITING FROM EACH OTHER

Wicked Business Problems



What is a wicked business problem?

“...a problem that is **difficult** or **impossible** to solve because of incomplete, contradictory, and changing requirements that are often difficult to recognize”

“...idea or problem that cannot be fixed, where there is no single solution to the problem; and “wicked” denotes resistance to resolution, rather than evil”

Source: https://en.wikipedia.org/wiki/Wicked_problem

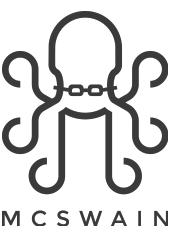
Wicked Business Problems



Characteristics of wicked business problems

- ▶ not easily possible to formulate a problem statement
- ▶ no stopping rule
- ▶ solutions are good or bad
- ▶ no immediate and no ultimate test of a solution
- ▶ solutions lack opportunities to learn by trial and error (e.g., one shot)
- ▶ problems do not have an exhaustively describable set of potential solutions
- ▶ wicked problems may be a symptom of another problem
- ▶ existence of a discrepancy representing a wicked problem can be explained in numerous ways
- ▶ problem solvers are liable for any/all consequences of their solution(s)

Business Problem Solving



Wicked Business Problem Domains

- ▶ **Communication** - documentation, visualization, and understanding the format of information your audience is seeking and their preferred consumption style (e.g., README files via markdown & HTML, graph views, Miro)
- ▶ **Automation** - reduction of human intervention in processes (Google App Script aka, JavaScript, Nodejs)
- ▶ **Integration** - the process of combining data or functionality from one or more sources within an application (APIs)
- ▶ **Experimentation** - the process of confirming or rejecting a hypothesis (electron, chrome extensions)
- ▶ **Analysis** (Decision Intelligence) - asserting past occurrences and predicting future events (jest, charting)



Assignments

Readings

[Strategy as a wicked problem](#)

[Docs for Developers - Chpt 2 \(use O'Reilly and enter your GaTech email\)](#)

[Importance of Problem Statement in Solving Industry Problems \(857-860 up to the industrial case\)](#)

Week 1 Discussions (Intro, Readings)

https://gatech.instructure.com/courses/347044/discussion_topics/1538565

https://gatech.instructure.com/courses/347044/discussion_topics/1538567

General Discussion

https://gatech.instructure.com/courses/347044/discussion_topics/1538563

Questions?