College of Information Studies

University of Maryland Hornbake Library Building College Park, MD 20742-4345

Data, Information and Knowledge (and the delayed Introduction!)

Session 2

INST 301

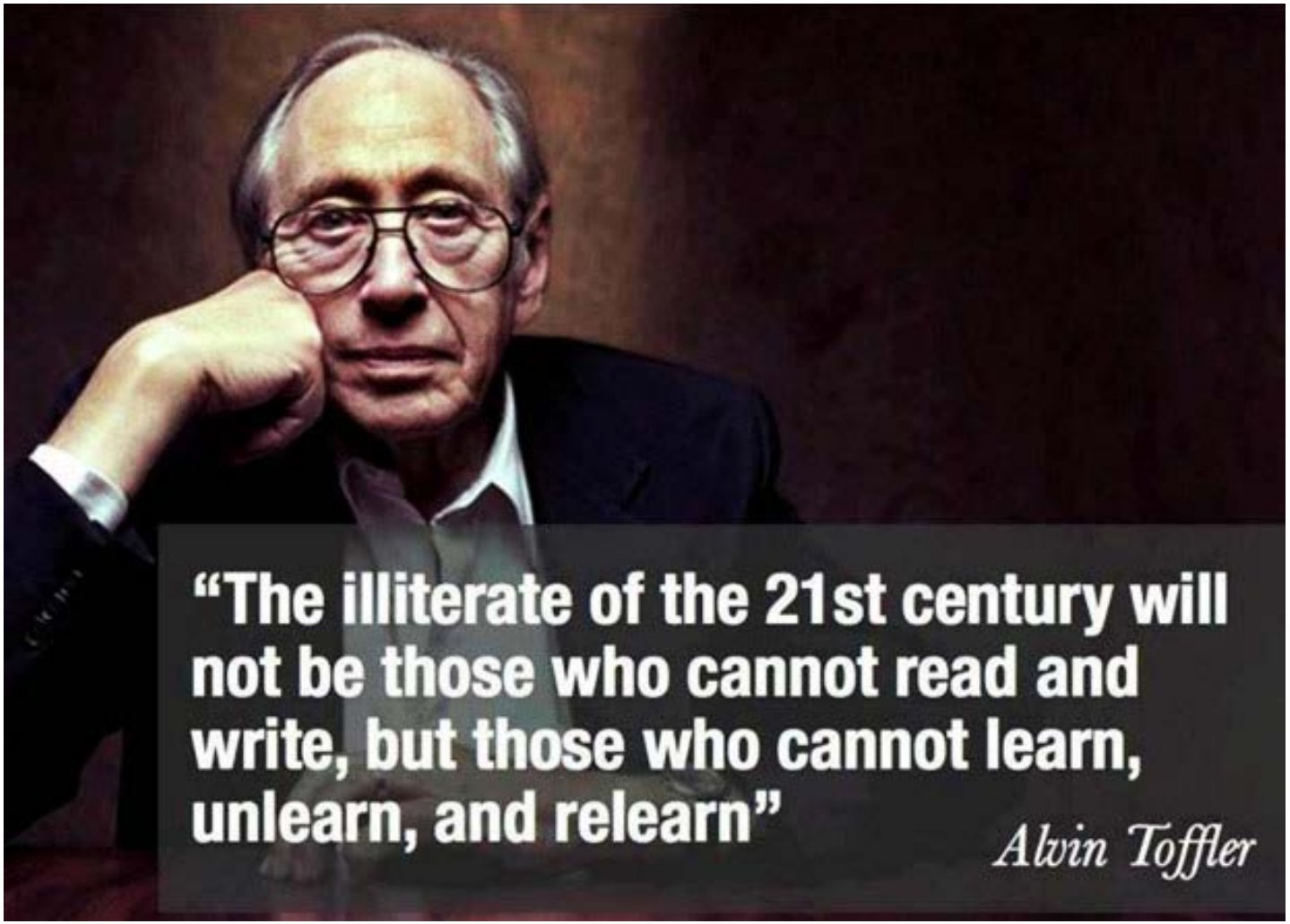
Introduction to Information Science

Outline

- The Third Wave

- Data / Information / Knowledge
- All the usual stuff (syllabus, grading, …)
- Information Science major

What is a Futurist?



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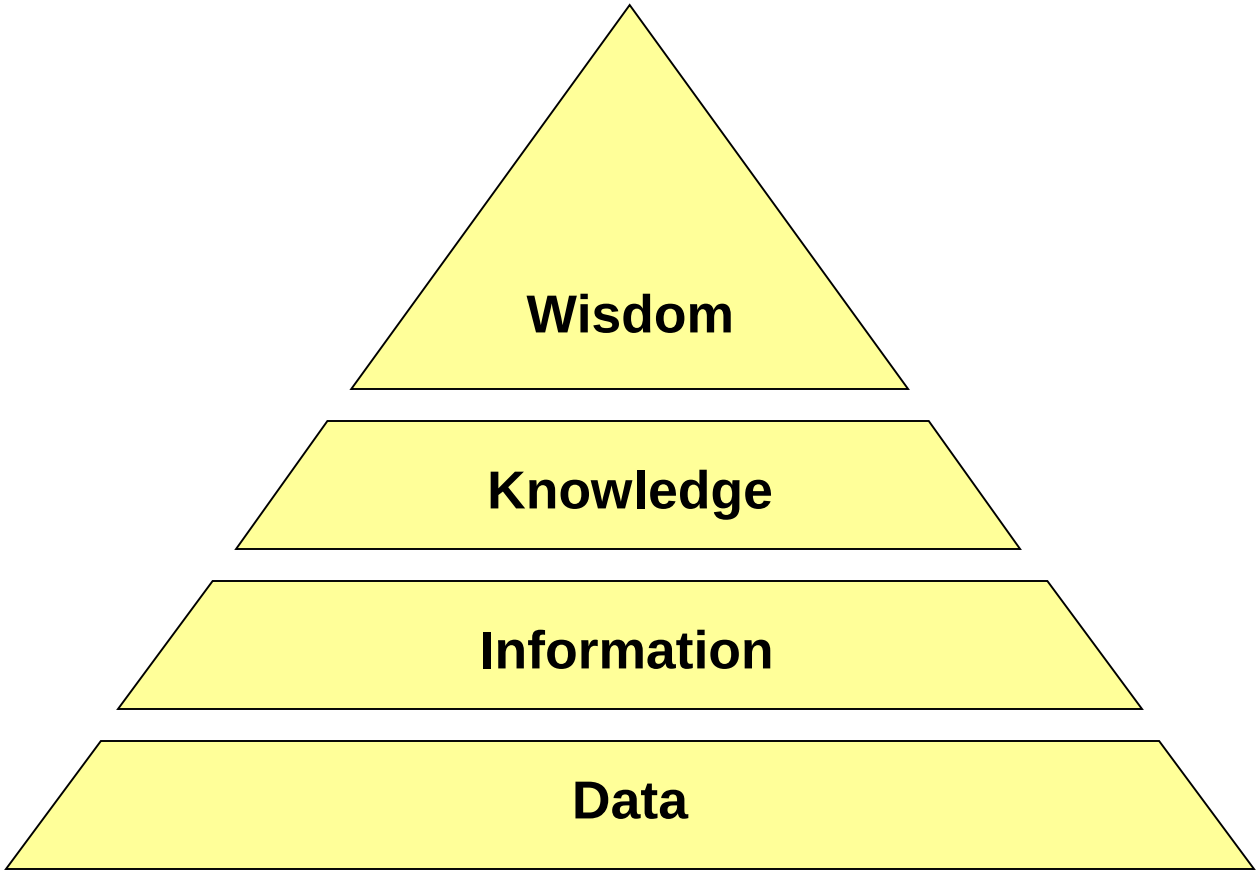
“Information”

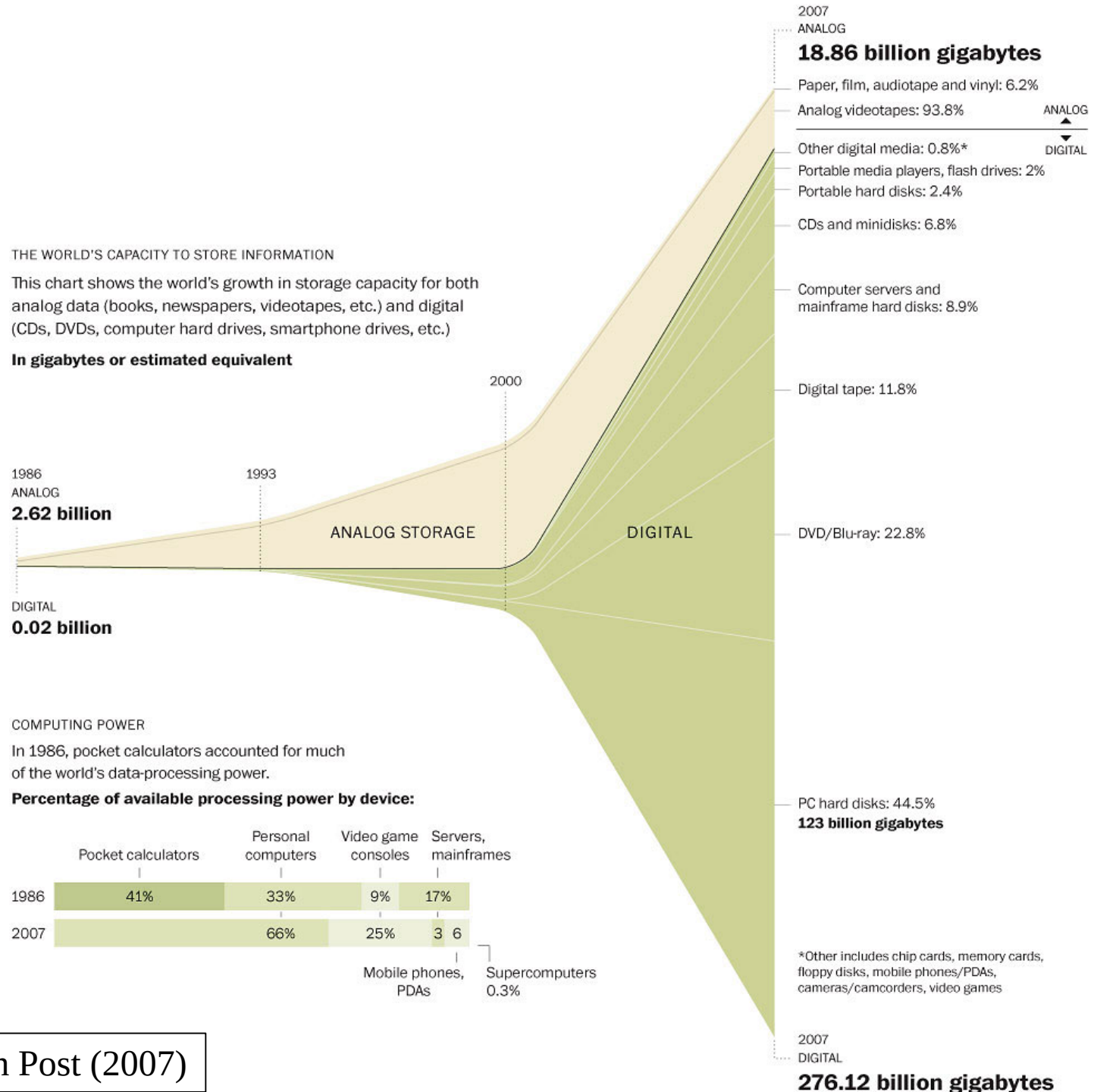


Information Hierarchy

- Data
  - Raw “facts”
- Information
  - Contextualized facts
- Knowledge
  - Actionable contextualized facts
- Wisdom
  - Judgmental choices among possible actions

An Example

- Data
  - 98.6º F, 99.5º F, 100.3º F, 101º F, …
- Information
  - Hourly body temperature: 98.6º F, 99.5º F, 100.3º F, 101º F, …
- Knowledge
  - If you have a temperature above 100º F, you most likely have a fever
- Wisdom
  - If you don’t feel well, go see a doctor



Washington Post (2007)

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Course Description

- Introduction of information and knowledge management systems and their use by **organizations**.
- Concepts underlying
  - database,
  - information retrieval, and
  - knowledge management **systems** will be discussed.
- Focus on
  - the **processes** of becoming informed and
  - the products which result from those processes, as well as
  - the innovative approaches to information problem solving within an organization.

Information (individual)	Data (organization)	Knowledge (society)
Information	Enterprise Sys	Lifecycle
Internet	Data as Asset	Collaboration
Web	Data Modeling	Institutions
Search Engines	Databases (2)	Professions
User Needs	Databases	Digital Gov
Search Strategy	CMS	Security
Social Networks	Linked Data	Privacy
	Data Mining	Filter Bubble
		Ethics

Some “Subtexts”

- The nature of innovation
- The interplay of technology and society
- The role of technical competence
- Different ways of knowing and doing

Approach

- Readings (done before class)
  - Acquire background
  - Can be consulted later as a source for details
- Class sessions
  - Develop conceptual structure
- Homework, Project
  - Gain hands-on experience
- Quizzes, exams
  - Focus effort, measure progress

Structure

- Classes start promptly at 2 PM
  - End promptly at 3:15
  - Bring your devices and use them
    - But stay focused on the class discussion
- Quiz at start of class on Tuesday
  - Exceptions: today; exam days
- Homework due at start of class each Thursday
  - Exception: this week
- Team project during Module 3
- Three “open book” exams

Grading

- 60% for individual work
  - 11 quizzes @ 2% each for your best 10
  - 3 exams @ 20% each for your best 2
- 20% for group work
  - Same grade for everyone in a project team
- 20% your choice (individual or group)
  - 8 assignments @ 4% each (but capped at 20%)
- No curve!
  - 90-100: some sort of A, 80-89: some sort of B, …

The Fine Print

- Group work is encouraged on homework
  - But you must personally write what you turn in
- Deadlines are firm and sharp
  - Allowances for individual circumstances are already included in the grading computation
- Academic integrity is a serious matter
  - No group work during the exams or quiz!es
  - Scrupulously respect time limits

Contact Information

- Doug Oard:
  - Office: AVW 3126 (or, by arrangement, HBK 2118F)
  - Office Hours: Wednesdays 10-10:55 AM
  - I'm also usually happy to stay after class
  - Email: oard@umd.edu (answered within 24 hours)
    - Indicate if you do not want my answer sent to the class

- Jyothi Vinjumur
  - Office: AVW 3126
  - Office Hours: Mondays 4-5 PM
  - Email: jyothikv@umd.edu (answered within 24 hours)

A Personal Approach to Learning

- Work ahead, so that you are never behind
- Find new questions everywhere
  - Then find the answers somewhere
- Enrich your practical skills relentlessly
- Pick topics you want to learn more about

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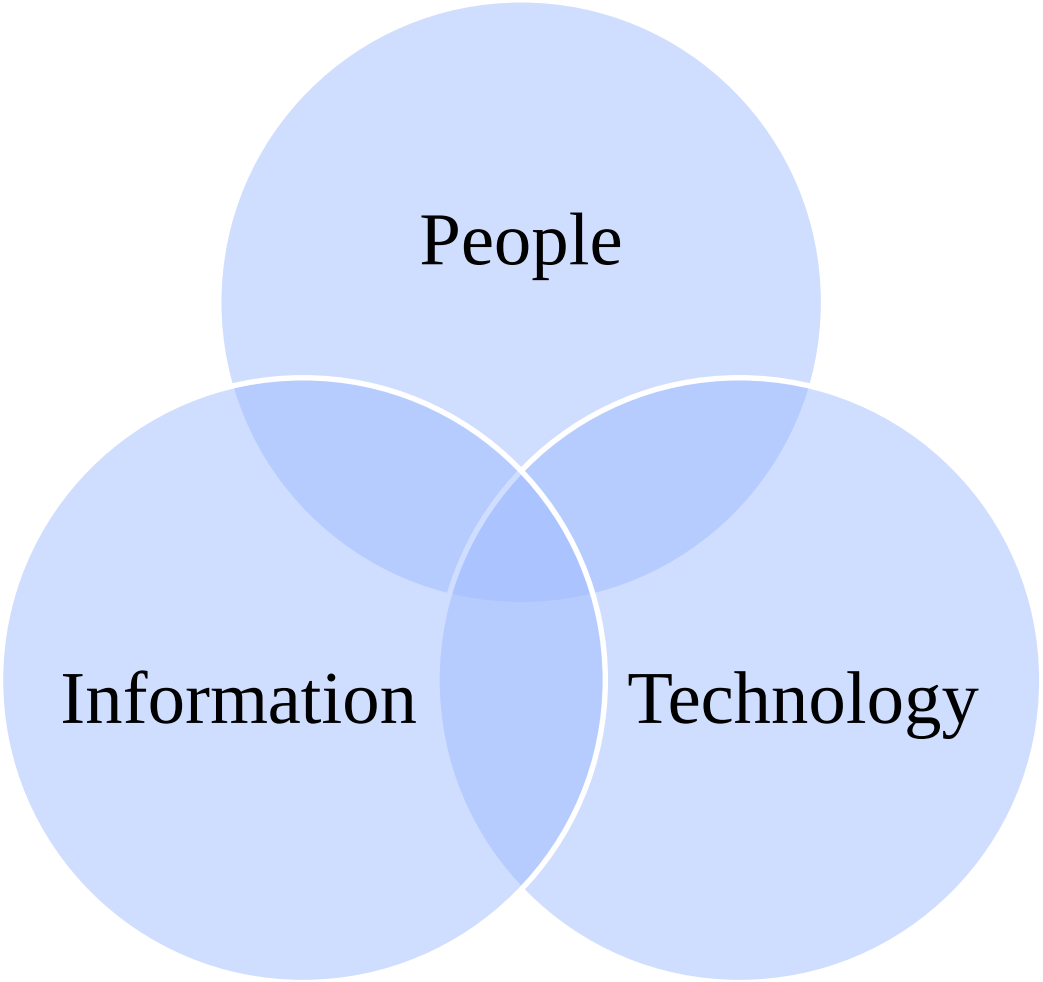
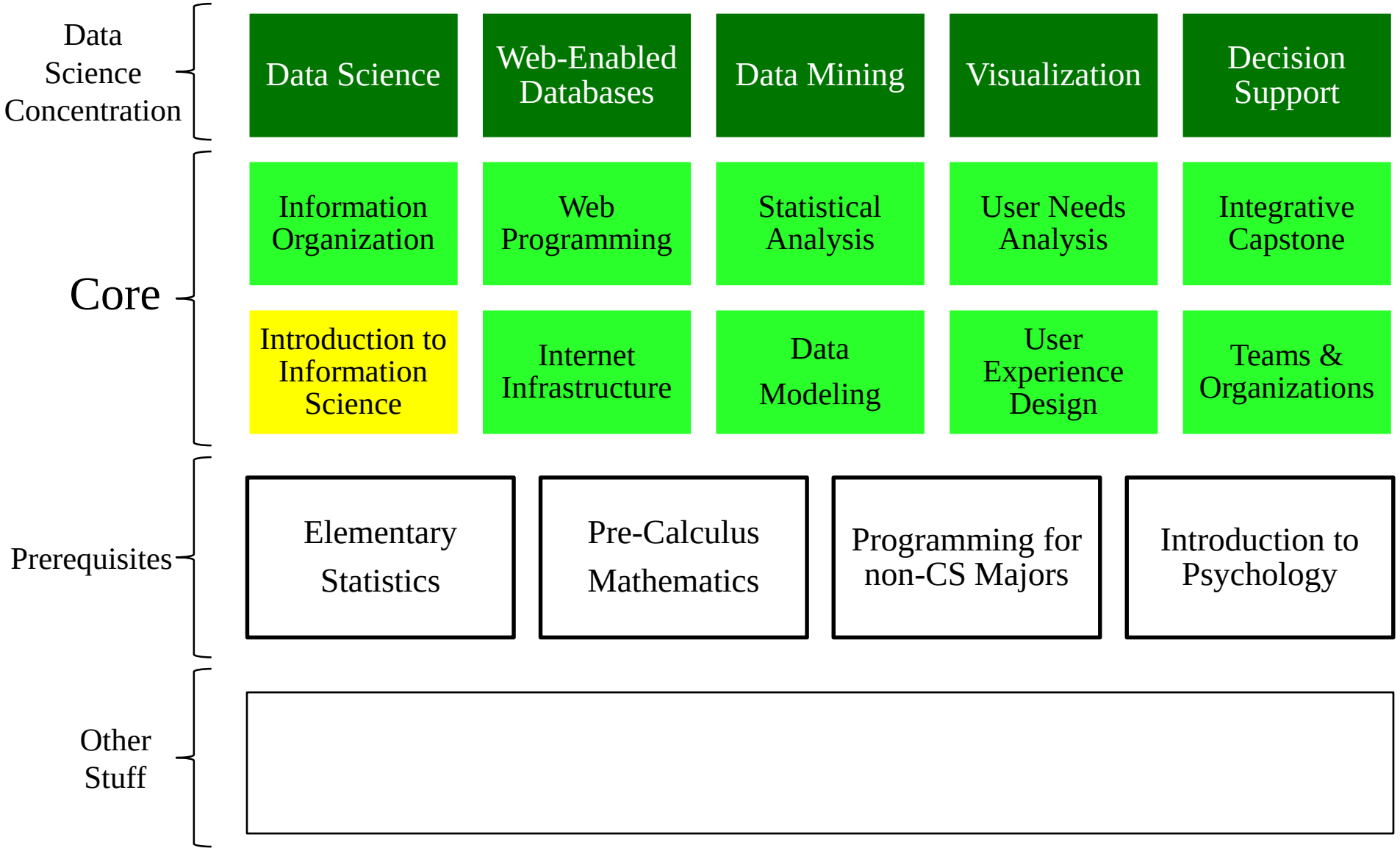


B.S. in Information Science



Before You Go

- Please complete the ungraded survey