

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

DATA 320 Data Security and Privacy

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Updated by:

**SCHOOL OF SCIENCE, HEALTH AND CRIMINAL JUSTICE
CENTER FOR CRIMINAL JUSTICE, INTELLIGENCE AND CYBERSECURITY
SPRING 2023**

- A. **TITLE:** Data Security and Privacy
- B. **COURSE NUMBER:** DATA 320
- C. **CREDIT HOURS:** 3
- D. **WRITING INTENSIVE COURSE:** No
- E. **GER CATEGORY:** None
- F. **SEMESTER(S) OFFERED:** Fall and Spring
- G. **COURSE DESCRIPTION:** The goal of the course is to familiarize the students with basic concepts of data security and privacy, their definitions, applications and current advances in research community and industry.
- H. **PRE-REQUISITES/CO-REQUISITES:**

Prerequisite: None

Co-requisite: None

Pre- or co-requisite(s): None

I. STUDENT LEARNING OUTCOMES:

<i>Course Student Learning Outcome [SLO]</i>	<i>ISLO</i>
Describe Data Security and Privacy, Types, Characteristics, Examples	2
Define Legislative Privacy, US Privacy, GDPR	3
Review Privacy and Data Collection	3
Explain Data Privacy Taxonomy and alternative Privacy Frameworks	3
Describe Hippocratic Databases, Privacy-aware access control models	5
Identify data anonymity and its examples	5

KEY	<u>Institutional Student Learning Outcomes [ISLO 1 – 5]</u>
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking <i>Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem Solving [PS]</i>
3	Foundational Skills <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
5	Industry, Professional, Discipline Specific Knowledge and Skills

J. **APPLIED LEARNING COMPONENT:** Yes No

K. **TEXTS:** None

L. **REFERENCES:**
Articles and related research papers will be provided by the instructor in Brightspace

M. **EQUIPMENT:** None

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- Participation Assignments
- Challenge Assignments
- Quizzes
- Exams

P. **DETAILED COURSE OUTLINE:**

- I. Introduction to Data Privacy and Security
- II. Data Privacy Taxonomy
- III. Legislative policies
- IV. Hippocratic Database
- V. Privacy-aware access control models
- VI. Anonymity models and their examples

Q. **LAB** NA