

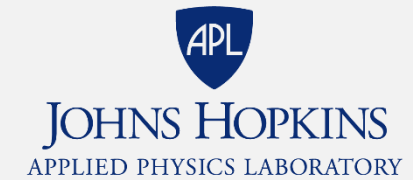
WELCOME TO NETWORK SECURITY

EN.600.444/644

Fall 2019

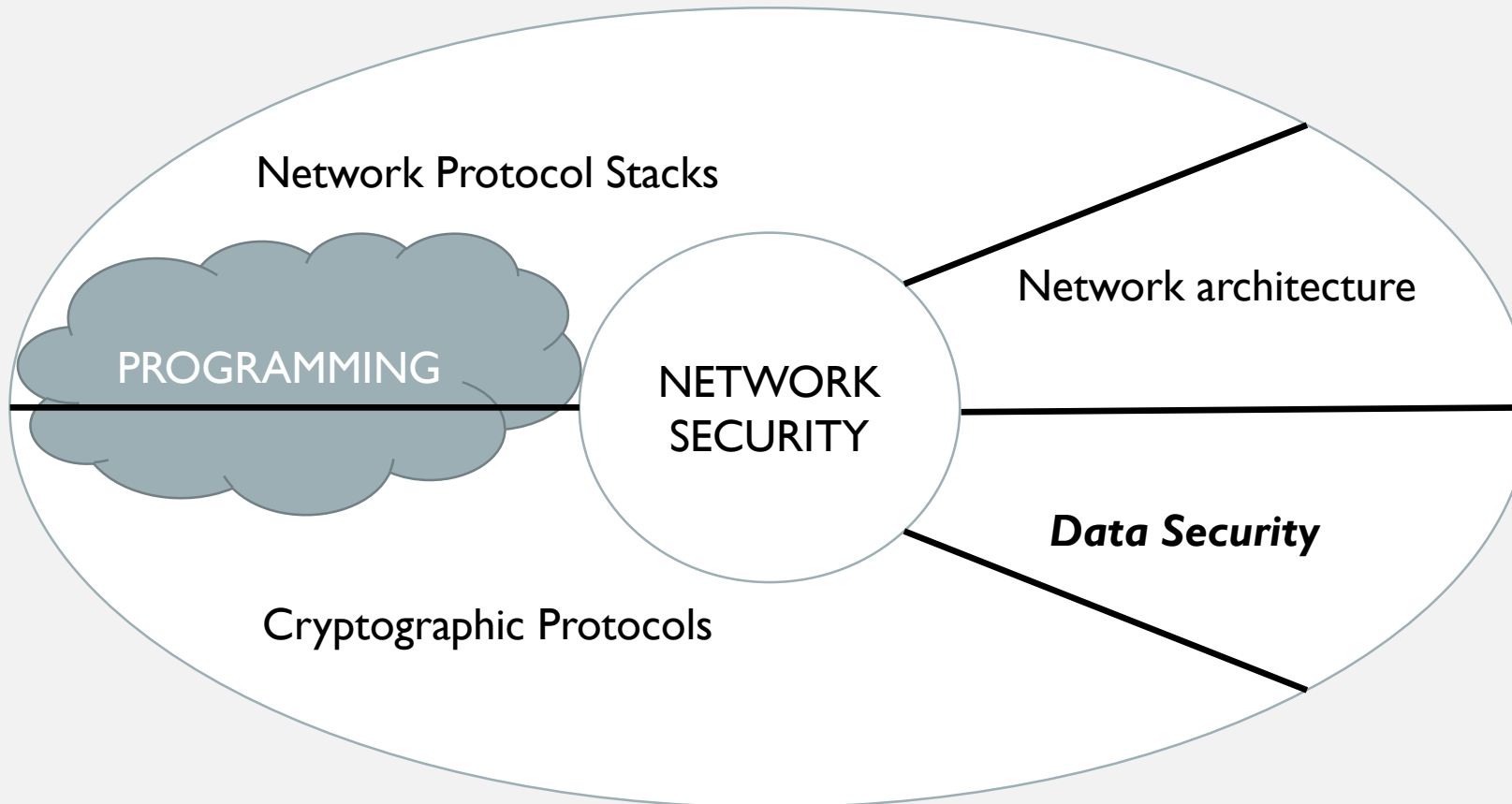
Dr. Seth James Nielson

ABOUT THE INSTRUCTOR



CRIMSON VISTA
TECHNICAL CONSULTING & LITIGATION SUPPORT

ABOUT THE COURSE



PHILOSOPHICAL OVERVIEW

TECHNICAL

NONTECHNICAL

THEORY

PRACTICE

EDUCATED

SKILLED

TEACHER

STUDENT



THE 5 ORDERS OF IGNORANCE

- 0th Order: Known Knowns
- 1st Order: Known Unknowns
- 2nd Order: Unknown Unknowns
- 3rd Order: Unknown methods for discovering unknown unknowns
- 4th Order: Unknown methods for exploring the orders of ignorance

(Adapted from Phillip Armour, “The Five Orders of Ignorance”)

THE 5 ORDERS OF IGNORANCE

- 0th Order: Known Knowns
- 1st Order: Known Unknowns

SKILL

- 2nd Order: Unknown Unknowns
- 3rd Order: Unknown methods for discovering unknown unknowns
- 4th Order: Unknown methods for exploring the orders of ignorance

EDUCATION

(Adapted from Phillip Armour, “The Five Orders of Ignorance”)

STUDENT + TEACHER

MEDIOCRITY



**Sufficient Time
Sufficient Sacrifice
Sufficient Humility**



SHARED VISION

YOUR BURDEN

Programming Exercises

Draft Specifications

LAB 1: *Reliable Delivery*

LAB 2: *Secure Delivery*



BUT YOU CAN DO IT!

TUPAC SHAKUR #QUOTE



TNCNNA

www.ComicStripGenerator.com

I **BELIEVE** in YOU

I want you to
SUCCEED!

I want you to feel the
RUSH and LOVE it!

BUT UNDERSTAND THE RISKS

A “**B**” (or maybe even a “**C**”) is not the greatest loss in your academic career. The greatest loss is an “**A**” on your transcript, but a “**B**” (or maybe even a “**C**”) in your heart and mind.

Dr Nielson #Quote

THIS CLASS IS **NOT** FOR YOU IF...

- Grades matter more than learning
- You're not willing to take risks
- You're not willing to work hard
- You're not willing to be *uncomfortable*

THIS CLASS **IS** FOR YOU IF...

- You want to increase your awesomeness
- You want to think in ways you've never thought before
- You like taking on challenges
- You understand both figuring things out for yourself and the need to get help