OVERVIEW OF THE DCS PROGRAM

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DOCTOR OF COMPUTER SCIENCE (DCS) PROGRAM
INTRODUCTIONS

INTRODUCE YOURSELF TO AT LEAST ONE OTHER CLASSMATE NOW
WISDOM

7 Lovely Logics

1) Make Peace with your Past so it doesn’t spoil your Present.

2) What others Think of you is None Of your Business.

3) Time Heals Almost Everything, Give the Time, Some Time.

4) No one is the Reason of your Happiness Except You yourself.

5) Don’t compare your Life with others, You have No Idea what their journey is all about.

6) Stop Thinking too much, Its Alright not to know all the Answers.

7) Smile, you don’t own all the Problems in the World.

More pics on www.imfunny.net
HUMOR

TUNDRA

You have got to be kidding.

Dude, seriously, breath mint?

My credit's been shot ever since my identity was stolen.
• Three Messages:
  • We should never, ever give up
  • You're never too old to chase your dream
  • It looks like a solitary sport but it took a team
The CTU Doctoral Program has four degree programs:

- DCS – Doctor of Computer Science
- DM – Doctor of Management
- DBA – Doctor of Business Administration
- DNP – Doctor of Nursing Practice
DCS CONCENTRATIONS

- The CTU DCS Program has four concentrations:
  - Big Data Analytics
  - Cybersecurity and Information Assurance
  - Enterprise Information Systems
  - General
• **Course Objectives**

  • Demonstrate an understanding of the common characteristics of big data: volume, velocity, variety, and veracity
  
  • Assess and apply the use of big data software tools to organize various types of datasets
  
  • Evaluate artificial intelligence solutions to big data problems
  
  • Devise algorithms for efficiently processing big data to support business operations
  
  • Create a big data use and analysis framework for the mission of an organization
CYBERSECURITY & INFORMATION ASSURANCE

• Course Objectives

• Create a security framework for protecting organizational assets to operations and data

• Evaluate security solutions and models for securing the enterprise

• Assess threats and vulnerabilities from internal and external sources

• Formulate effective security awareness and prevention programs

• Evaluate risks to organizational assets and management of business continuity/disaster recovery
ENTERPRISE INFORMATION SYSTEMS

• Course Objectives

• Assess technology solutions that support enterprise-wide business objectives and the organizational mission

• Analyze impact of strategic decisions within the enterprise architecture

• Evaluate enterprise data and business intelligence requirements

• Synthesize strategic planning for resources, systems, and vendor outsourcing

• Formulate a framework for risk management of information technology assets and business continuity/disaster recovery
COMMON THEMES WITHIN THE CONCENTRATIONS

• Prepares leaders

• Merges skills and theory

• Addresses emerging trends in the field

• Requires research capabilities
DESIGNED TO ALLOW GRADUATION IN 3 YEARS

• Year 1: Foundations
  • Year 1 focuses on computer science and information systems topics and an orientation to research and writing at the doctoral level. Coursework covers current topics in the disciplines as well as research methods and qualitative techniques. The research component results in a broad overview of the student’s area of concentration in order to put the research into context and inform the student’s selection of a research topic.

• Year 2: Acquisition of Knowledge
  • Once the foundations are in place, Year 2 is where each student develops an in-depth understanding of the knowledge and research methods in his or her chosen area of study. While most of the effort in Year 2 is on developing a richer understanding of the discipline.

• Year 3: Proposal and Dissertation Completion
  • Coursework in the final year of the program includes the two remaining concentration courses plus the final six doctoral research courses that enable one to complete the research and dissertation.
PROGRAM REQUIREMENTS
OVERVIEW

• 96 Credit Hours Needed to Graduate (each course is 4 credits)

• 12 Core and Concentration Courses
  • CSxxx (most of these courses)

• 9 Research and Dissertation Courses
  • RES860, RES861, RES862, RES863, RES864 (11-week courses)
  • RES865, RES866, RES867, RES868 (5.5-week courses)

• 3 Research Methods Courses
  • RES804, RES812, RES814

• Dissertation (5 Chapters for most, Occasional 6 Chapters for Design Science)
YEAR 1 – DM, DBA, AND DCS PROGRAMS

- **RES860** – Doctoral Research I: Principles of Research and Writing
  - ---Core Course----- or ---Concentration Course-----

- **RES804** – Principles of Research Methods and Design
  - ---Core Course----- or ---Concentration Course-----

- **RES812** – Qualitative Research Methods
  - ---Core Course----- or ---Concentration Course-----

- **RES861** – Doctoral Research II: Annotated Bibliography
  - ---Core Course----- or ---Concentration Course-----
YEAR 2 – DM, DBA, AND DCS PROGRAMS

- **RES814 – Quantitative Research Methods**
  - Core Course or Concentration Course

- Core Course or Concentration Course

- Core Course or Concentration Course

- Core Course or Concentration Course

- Core Course or Concentration Course

- **RES862 – Dissertation Research Process**
  - Core Course or Concentration Course
YEAR 3 – DM, DBA, AND DCS PROGRAMS

• RES863 – Doctoral Research III: Dissertation Literature Review
  -----Core Course----- or -----Concentration Course-----  11-Week Courses

• RES864 – Doctoral Research IV: Dissertation Methods
  -----Core Course----- or -----Concentration Course-----

• RES865 – Doctoral Research V: Dissertation Introduction
• RES866 – Doctoral Research VI: Dissertation Findings
  5.5-Week Courses

• RES867 – Doctoral Research VII: Dissertation Discussion and Conclusion
• RES868 – Doctoral Research VIII: Dissertation Conclusion
To finish these courses and stay on schedule, must complete the above activities (at a minimum):

1. Polish your draft of Chapter 2.
2. Review of the Literature.
3. Draft of Chapter 3 + Grammarly
4. Revision of Chapter 3 (as required)
5. Draft of Chapter 1 + Grammarly
6. Revision of Chapter 1 (as required)
7. Total Proposal for Mentor Review + Grammarly
8. Revision of Proposal (as required)
9. Submission of Proposal for Proposal Review
10. Revision of Proposal (as required)
11. IRB for Mentor Review
12. Revision of IRB (as required)
13. IRB Submitted by Professor to IRB
14. Revision of IRB (as required)
15. Data Collection
16. Data Analysis
17. Chapter 4 + Grammarly
18. Revision of Chapter 4 (as required)
19. Chapter 5 + Grammarly
20. Revision of Chapter 5 (as required)
21. Entire Dissertation (Chapters 1–5) (make sure to change future to past tense) + Grammarly
22. Revision of Dissertation (as required)
23. Committee Review
24. Revise Dissertation (as required)
25. Perform Grammarly Check, Submit Report, Revise, Citation Cross-Reference
26. Final Presentation
27. Professional Editing
28. Publication

SCHEDULE PLANNING & EXPECTATIONS

Early Emphasis on Building Literature Review (Chapter 2)
Problem Sentence
The problem to be addressed in the proposed study are the big data storage improvements needed to support business decision processes have not been identified (reference, year)

Purpose Sentence
The purpose of the proposed qualitative exploratory study is to explore the big data storage improvements needed to support business decision processes

Research Question
What are the big data storage improvements needed to support business decision processes?

Dissertation Title
EXPLORING THE BIG DATA STORAGE IMPROVEMENTS NEEDED TO SUPPORT BUSINESS DECISION PROCESSES
CHAPTER 2 ADDRESSES THE PARTS OF ELEPHANT

CHAPTER TWO

History of the Trunk

Topic 1
Topic 2
Topic 3

Issues of the Leg

Successes of the Side

Benefits of the Top

Risks of the Tail

Emergence of the Ear

Conceptual Framework

Summary of Chapter Two
THANK YOU FOR JOINING THIS SESSION!

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QUESTIONS?