Business and Information Technology Systems (BITS),
Health & Human Services Department,
and Public Services

Advisory Committee

November 4th, 2020

**Minutes for Breakout Session – Business and Information Technology Systems (BITS)**

**Computer Information Systems (CIS) – Cyber Security / Computer Information Systems (CIS) - Programming**

- Call to order: 4:20 PM
- Approval of Meeting Minutes – October 23, 2019
- Agenda/Updates:
    - Update on program offerings
    - Information technology Associate Degree to Transfer (ADT)- CSUSB
    - New programs and suggestions
    - Apprenticeship
    - Student E- portfolio
- News from Industry
- Industry Questions
- Wrap-up
- Adjournment

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- Current Certificates:
    - Information Assurance Auditing: 18 units
    - IT Systems Support & Sales: 15 units
        - BUS-10 Introduction to Business
        - BUS-24 Business Communication
        - BUS-47 Applied Business and Management Ethics
        - CIS-1A Introduction to Computer Information Systems
        - CIS-25 Information and Communication Technology Essentials
    - IT Systems Specialist: 15 units
        - CIS-21 Introduction to Operating Systems
        - CIS-27 Information and Network Security
        - CIS-40A Computer Network Fundamentals
        - CIS-40C Installing, Configuring & Administering Microsoft Operating Systems

- - - CIS-40D Systems and Network Administration
  - Information Technology: 24 units
    - CIS-1A Introduction to Computer Information Systems
    - CIS/CSC-5 Programming Concepts and Methodology I:C++
    - CIS-25 Information and Communication Technology Essentials
    - CIS-40A Computer Network Fundamentals
    - Select 2 courses
      - CIS/CSC-2 Fundamentals of Systems Analysis
      - CIS/CSC-21 Introduction to Operating Systems
      - CIS-40B Routing and Switching Essentials
      - CIS-27 Information and Network Security
      - CIS-27A Computer Forensics Fundamentals
      - CIS 27B Introduction to Cybersecurity: Ethical Hacking
      - CIS-61 Introduction to Database Theory
      - BUS-24 Business Communications
    - Select 1 course
      - MAT-1A Calculus I
      - MAT-5 Calculus for Business and Life Science
      - MAT-12 Statistics
  - Cybersecurity Specialist: 15 units
    - CIS-27 Information and Network Security
    - CIS-30A Introduction to Python Programming
    - CIS-27A Computer Forensics Fundamentals
    - CIS-27B Introduction to Cybersecurity: Ethical Hacking
    - CIS-41A Principles of Cybersecurity Analysis
  - Cybersecurity Analyst: 18 units
    - CIS-27 Information and Network Security
    - CIS-27A Computer Forensics Fundamentals
    - CIS-30A Introduction to Python Programming
    - CIS-40D Systems and Network Administration
    - CIS-41A Principles of Cybersecurity Analysis
    - CIS-41D Advanced Security Concepts and Practices
  - Cybersecurity Healthcare Specialist: 18 units
    - CIS-8 Fundamentals: Information Systems Security Auditing
    - CIS-25 Information and Communication Technology Essentials
    - CIS-27 Information and Network Security
    - CIS-40D Systems and Network Administration
    - CIS-41A Principles of Cybersecurity Analysis
    - CIS-41B HealthCare Information Security & Privacy for Practitioner
  - Python Programming: 15 units
    - CIS-30A Introduction to Python Programming
    - CIS-30B Python Programming in Networking
    - CIS-30C Python Programming in Cybersecurity
    - CIS-30D Python Programming for Internet of Things
    - CIS-30E Advanced Python Programming
- Current Associate Degree to Transfer (ADT)- 60 units
  - Computer Application
  - Computer Programming
- Proposing: IT Cybersecurity associate degree
  - Information Cybersecurity Associate Degree – transfer to CSUSB
    - Courses in Information Technology certificates
    - OR Courses in cybersecurity Analysts

- OR Cybersecurity Health Specialist Certificate AND General education courses
- New Program Recommendation:
  - Cloud Administration: 19 units
    - Existing courses:
      - CIS-25 Information and Communication Technology Essentials
      - CIS-27 Information and Network Security
      - CIS-40A Computer Network Fundamentals
      - BUS-77A Introduction to Project Management
    - New courses:
      - Introduction to Cloud (CompTIA Cloud+)
      - Cloud Administration I (MS Azure Storage and Implementation)
      - Cloud Administration II (Azure Deployment and Management)
      - Cloud Administration III (Virtual networks)
  - IoT Administration:
    - Implement existing courses and include new courses.
  - Data Analytics/Data Science:
    - Math and CIS program.
- Apprenticeship Registered:
  - IT Support
  - Cybersecurity Specialist
- Student E- Portfolio
  - Pilot options in Fall 2020 –Spring 2021
    - Google Sites
    - Office 365 OneNote Notebook
    - Canvas E-portfolio
  - Full implementation:
    - Fall 2021
- Discussion and Feedback: certifications and apprenticeship
- Adjournment: 5:46PM