Easing the rocky road to an IT Bachelors degree
PRESENTER

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LET’S TAKE A TRIP

- Starting with the Past
THE BEGINNING

- Lots of Meetings!!
  - CC faculty
  - Business Leaders
  - Faculty
  - Students
  - ABET
  - Etc
- First offering Fall 2008 42 students
- Fall 2009 90 students
- First Graduate Dec 2010
- Silver Award in 2009 For “Innovation in Curriculum Development” from the National Center for the Study of Transfer Students
BA-IT Degree
GOALS AND CONSTRAINTS

- Valuable to area industry
- Maximize potential transfer credits
- Eligible for ABET accreditation
- Meets the requirements for College of Engineering programs
- Provides opportunities for transfer of courses and curriculum to community colleges
- Multiple opportunities for hands-on experiences
- Diverse background in IT topics in required courses
- Flexibility for students to design their own specializations
The Present
SO WHAT’S NEW???

A Preview of Coming Attractions!!!

Rated PG: Suitable for All Audiences – Advisor Discretion Suggested
WE LEARNED SOME LESSONS AFTER 4 YEARS

- The College of Engineering changed their requirements
- And the state changed the core....
- So we have a new and improved BA-IT program!

Current levels
- Over 50 graduates to date
- 84 majors and 42 pre-majors in Fall 2014
PROGRAM REQUIREMENTS

- 121 Hours minimum with 42 advanced hours
- 8 hours of science with labs
- 7 hours of Mathematics
- 3 hours of Advanced Oral and Written Communications
- 55 required hours in Computer Science and IT including 9 hours of advanced technical electives
- 21 hours in supporting courses
- University core (27 hrs)
- This degree can also be configured to participate in the Teach North Texas program with teacher certification
**Unique Features**

- 9 hour CS/IT concentration
- 21 hour Support area permits further specialization of an interdisciplinary nature

  - Pre-Med
  - Pre-Law
  - Pre-MBA
  - Game Development
  - Criminal Justice / CSI
  - Information Security
  - Communications and Networks
  - Technical Management
  - Computational Life Sciences
  - And many others
THE IT REQUIREMENTS

Required Courses

- CSCE 1030 – Computer Science I (4 hrs) – COSC 1436
- CSCE 1040 – Computer Science II (3 hrs) – COSC 1437
- CSCE 2100 – Computing Found. I (3 hrs) – COSC 2436
- CSCE 2110 – Computing Found. II (3 Hrs) – Disc. Math
- CSCE 3220 – HCI (3 hrs)
- CSCE 3055 – IT Project Mgmt (3 hrs)
- CSCE 4350 – Intro to DB (3 hrs)
- CSCE 3530 – Intro to Networking (3 hrs)
- CSCE 3600 – Systems Prog. (3 hrs)
- CSCE 4444 – Software Eng. (3 hrs)
- CSCE 3420 – Internet Prog. (3 hr)
- CSCE 4550 – Intro to Computer Security (3 hrs)
- CSCE 4905 – Capstone I (3 hrs)
- CSCE 4925 – Capstone II (3 hrs)
- CSCE 4010 – Engineering Ethics (2 hrs)
TRANSFERABLE HOURS

- A total of up to 79 hours could be earned at the community college
- Typical transferable hours is about 40 hours

- With some work to revise required course sequences and degree plans, and tailored articulation agreements – more students could transfer more hours into the program
- This is one of our continuous working goals
NEW BASIC REQUIREMENTS

- Engineering Core Requirements
  - LABORATORY SCIENCES (8 Hours)
  - BIOL 1710-1730 (4 Hours)
  - CHEM 1410-1430 or 1415-1435 (4 Hours)
  - MATHEMATICS (7 Hours)
    - Math 1710 – Calculus I (4 hours)
    - Math 1680 – Probability Models (3 Hours)
  - ORAL / ADVANCED WRITTEN COMMUNICATIONS (3 Hours)
    - (Satisfies University English II & Communications Requirement)
  - TECM 2700 – Tech Writing (satisfies 2nd English)
BASIC REQUIREMENTS

- English (3 hours)
- History (6 hours)
- Political Science (6 hours)
- Humanities (3 hours)
- Social and Behavioral Science (3 hours)
- Visual and Performing Arts (3 hours)
- Capstone (3 Hours)
- Discovery (3 Hours)
THE IT REQUIREMENTS

- **Required Courses**
  - CSCE 1030 – Computer Science I (4 hrs) – COSC 1436
  - CSCE 1040 – Computer Science II – COSC 1437
  - CSCE 2100 – Computing Foundations I
  - CSCE 2110 – Computing Foundations II
  - CSCE 3220 – Human Computer Interfaces
  - CSCE 3420 – Internet Programming
  - CSCE 3055 – IT Project Mgmt
  - CSCE 4444 – Software Engineering
  - CSCE 4350 – Database Systems
  - CSCE 3530 – Intro to Computer Networks
  - CSCE 3600 – Systems Programming
  - CSCE 4550 Intro to Computer Security
  - CSCE 4905 – Capstone I
  - CSCE 4925 – Capstone II
  - CSCE 4010 – Engineering Ethics
THE ELECTIVES

- 9 Hour Specialization in Advanced CSCE

- 21 Hour Supporting area
  - These can now be all transfer courses as advanced hours are completed in the Required and Specialization areas
ABET

- The BAIT program was ABET Accredited in 2014
  - Retroactive to 2012 for 4 years
  - Redo in 2016 to be in synch with other programs
- Why is this important?
THE FUTURE
PREVIEWING THE 2016 BAIT

- See Handout
- Response to business requests for more admin training
- More Analyst training
ANYTHING ELSE NEW? YES!!!!!

- BA-IT goes NATIONAL – read all about it!!!

- Currently developing plans to teach all the upper division courses and selected electives for specialization in an online format.

- Capstone courses will be taught by UNT faculty with assistance from mentors at selected partner community colleges to provide local resources:
  - Starting with the CT mentored college and partner network.
PARTNERING

- Articulation with select community colleges
- Advisors at community colleges
- Mentors at community colleges
- Tuition plans
- Advising plans
QUESTIONS?