



Information Technology Entrepreneurship projects- collaboration and assessment - Academics and BILT (Business Industry Leadership Team)

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*New York
February 25, 2019*

Agenda

- Mission
- ISLO – Institutional Learning Outcomes
- Our Programs- Cyber Defense, Programming, Networking (AAS)
- IAB Industry Advisory Board / BILT Business Industry Leadership Team
- IT Entrepreneurship project – Business and Industry Judges
- ePortfolio, soft skills
- Career Readiness

Abstract

Chattanooga State Community College CIT students worked on IT entrepreneurship projects in their Systems Analysis and Design class. The team project emphasized creating ePortfolio, gaining soft skills, presentation skills, career readiness and interview skills. Students brainstormed on ideas for startup IT Business and created a web site, database, organization chart, budget sheet, marketing materials and presentation. The project emphasis was on communication, hard skills and soft skills. Business and Industry professionals judged student's projects using a rubric and provided constructive feedback.

Mission

The mission of Computer Information Technology Department is to prepare students for Associate of Applied Science in [Cyber Defense, Networking and Programming concentration](#) along with certifications in emerging Information technologies and transfer to 4 year schools via TTP Tennessee Transfer Pathway.

The programming track prepares students in databases, object-oriented and web programming languages to design, develop and implement scalable applications for Software Engineer careers.

The Cyber Defense program prepares students with skills needed to identify vulnerabilities and fortify computer systems in order to prevent cyber security breaches.

The Networking program provides students with network management skills, computer security, operating systems, switches and routers, and server administration. Students will develop strong critical thinking and problem solving skills in a hands-on lab environment along with real world internship experiences.

ISLO – Institutional Student Learning Outcomes



Soft skills for a great job and successful career:

- Problem Solving
- Critical Thinking
- Communication
- Work Ethic (Time management)
- Life long learner

https://youtu.be/cx_du9gxM0M

Programs

Cyber Defense

<https://www.chattanoogaastate.edu/cyber-defense-concentration>

Programming

<https://www.chattanoogaastate.edu/programming-concentration>

Networking

<https://www.chattanoogaastate.edu/networking-concentration>

Cyber Defense



Applying for Center of Academic
Excellence in Cyber Security (CAE)
2 year designation

Graduates can find career opportunities as information systems security specialists, operating systems security specialists, applications security specialists, and information assurance security specialists. Career opportunities may be found in the healthcare, financial services and insurance industries, as well as in education.

This concentration provides students a foundation in programming and networking, essential skills needed to identify vulnerabilities and fortify computer systems in order to prevent cyber security breaches. Courses such as digital forensics and penetration testing teach the latest techniques and tools in this dynamic career field. Strong critical thinking skills are developed in a hands-on lab environment along with real world internship experiences.

Cyber Defense

CHATTANOOGA STATE
COMMUNITY COLLEGE

ENGINEERING AND
INFORMATION
TECHNOLOGIES
DIVISION

A.A.S. DEGREE

Computer Information Technology: Cyber Defense Concentration

This concentration focuses on cyber security and digital forensics, essential skills needed to identify vulnerabilities in computer systems and prevent cyber security breaches. Courses such as digital forensics and penetration testing teach the latest techniques and tools in this dynamic career field. Strong critical thinking skills are developed in a hands-on lab environment along with real world internship experiences.

CHATTANOOGA STATE
COMMUNITY COLLEGE

A.A.S. DEGREE Computer Information Technology: Cyber Defense Concentration

CAREERS

- » Information Systems Security Specialists
- » Operating Systems Security Specialists
- » Applications Security Specialists
- » Information Assurance Security Specialists

SALARY

Median Salary in U.S.

\$52,810
per year

\$25.39
per hour

Courses (suggested two-year plan based on degree requirements)

FRESHMAN FALL (16 HRS)		
CSIS 1000	College Success Information Systems	3
ENGL 1010	Composition I	3
CISP 1010	Computer Science I	4
CITC 1302	Introduction to Networking	3
CITC 1351	Principles of Info Assurance	3
FRESHMAN SPRING (16 HRS)		
CISP 1020	Computer Science II	4
CITC 1303	Database Concepts	3
CITC 1332	UNIX/LINUX Operating Systems	3
CITC 2326	Network Security	3
COMM 2025	Fundamentals of Communication	3
SOPHOMORE FALL (15 HRS)		
CITC 2335	System Analysis and Design	3
CITC 2352	Digital Forensics	3
CITC 2363	Intranet, Firewalls, and eCommerce	3
MATH 1530	Introductory Statistics	3
	<i>Humanities/Fine Arts General Education Elective</i>	3
SOPHOMORE SPRING (16 HRS)		
CITC 2390	CIT Capstone	3
CITC 2399	CIT CO-OP/Internship	3
CITC 2356	Penetration Testing and Network Defense	3
CITC 2354	Advanced Digital Forensics	3
	<i>Social/Behavioral Science General Education Elective</i>	3
	<i>Directed Natural Science Elective</i>	4
TWO-YEAR TOTAL (63)		

For more information about the Computer Information Technology A.A.S. degree call 423.697.4434

TUITION/FEES **FINANCIAL AID** **ACADEMIC MAP**

11-70-2023103-12-7/18fp - PDF - Chattanooga State does not discriminate on the basis of race, color, national origin, sex, or disability. See our full policy at <https://www.chattanooga-state.edu/human-resources/employment-and-job-listings>.



Networking


Graduates can find career opportunities as network administrators, computer systems administrators, computer technicians, or computer network analysts. There are careers available in government, education or private industry.

This concentration offers coursework to develop the skills to manage networks. In addition to network management skills, students learn about computer security, programming, operating systems, switches and routers, and server administration. These courses help students prepare for certifications such as A+, Network+, and CCNA. Strong critical thinking skills are developed in a hands-on lab environment along with real world internship experiences.

Networking

CHATTANOOGA STATE
COMMUNITY COLLEGE

ENGINEERING AND
INFORMATION
TECHNOLOGIES
DIVISION



A.A.S. DEGREE
**Computer Information Technology:
Networking Concentration**

This concentration offers coursework to develop network management skills. In addition, students learn computer security, programming, operating systems, switches and routers, and server administration. These courses help students prepare for certifications such as A+, Network+, and CCNA. Strong critical thinking skills are developed in a hands-on lab environment along with real world internship experiences.

CHATTANOOGA STATE
COMMUNITY COLLEGE

A.A.S. DEGREE
**Computer Information Technology:
Networking Concentration**

CAREERS

- » Network Administrators
- » Computer Systems Administrators
- » Computer Technicians
- » Computer Network Analysts

SALARY

Median Salary in U.S.
\$52,810 per year
\$25.39 per hour

Courses (suggested two-year plan based on degree requirements)

FRESHMAN FALL (18 HRS)		
CSIS 1000	College Success Information Systems	3
ENGL 1010	Composition I	3
COMM 2025	Fundamentals of Communication	3
CITC 1301	Introduction to Programming and Logic	3
CITC 1302	Introduction to Networking	3
CITC 1320	A+ Hardware and Software	3
FRESHMAN SPRING (14 HRS)		
CITC 1303	Database Concepts	3
CITC 1317	Introduction to Scripting Languages	2
CITC 2320	Window Server Administration	3
CITC 2326	Network Security	3
MATH 1530	Introductory Statistics	3
SOPHOMORE FALL (15 HRS)		
CITC 1323	Cisco Certified Network Associate I	3
CITC 2364	Virtualization Essentials	3
CITC 2335	Systems Analysis and Design	3
	Humanities/Fine Arts General Education Elective	3
	Directed Computer Information Technology Elective	3
SOPHOMORE SPRING (16 HRS)		
CITC 1332	UNIX/LINUX Operating System	3
CITC 2390	CIT Capstone	3
OR CITC 2399	CIT CO-OP/Internship	3
	Social and Behavioral Science General Education Elective	3
	Directed Computer Information Technology Elective	3
	Directed Natural Science Elective	4
TWO-YEAR TOTAL (63)		

For more information about the Computer Information Technology A.A.S. degree call 423.697.4434

TUITION/FEES FINANCIAL AID ACADEMIC MAP

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Programming



Graduates can find career opportunities as software developers, software engineers, programmer analysts, database programmers, or web developers. Careers are available in almost every industry.

This concentration is for those who want a career as a programmer or software engineer. Learn fundamentals of networks, databases, operating systems, and features of object-oriented and web programming languages like Java, C# and PHP to design, develop and implement scalable applications. Students will develop strong critical thinking skills in a hands-on lab environment along with real world internship experiences.

Programming



ENGINEERING AND
 INFORMATION
 TECHNOLOGIES
 DIVISION

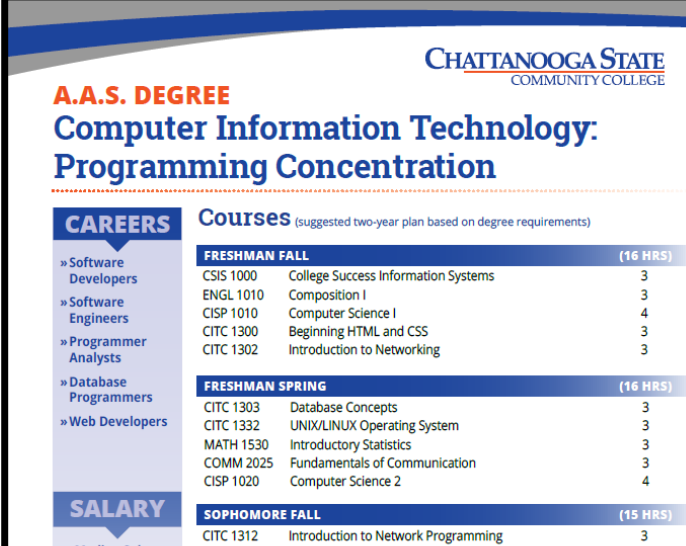
CHATTANOOGA STATE
COMMUNITY COLLEGE

A.A.S. DEGREE

Computer Information Technology: Programming Concentration

This concentration is for those who desire a career as a programmer or software engineer. Learn fundamentals of networks, databases, operating systems, and features of object-oriented and web programming languages like Java, C# and PHP to design, develop and implement scalable applications. Students will develop strong critical thinking skills in a hands-on lab environment along with real world internship experiences.

ENGINEERING AND
 INFORMATION
 TECHNOLOGIES
 DIVISION



CHATTANOOGA STATE
COMMUNITY COLLEGE

A.A.S. DEGREE

Computer Information Technology: Programming Concentration

CAREERS

- » Software Developers
- » Software Engineers
- » Programmer Analysts
- » Database Programmers
- » Web Developers

Courses

(suggested two-year plan based on degree requirements)

FRESHMAN FALL		(16 HRS)
CIS1000	College Success Information Systems	3
ENGL1010	Composition I	3
CISP1010	Computer Science I	4
CITC1300	Beginning HTML and CSS	3
CITC1302	Introduction to Networking	3

FRESHMAN SPRING		(16 HRS)
CITC1303	Database Concepts	3
CITC1332	UNIX/LINUX Operating System	3
MATH1530	Introductory Statistics	3
COMM2025	Fundamentals of Communication	3
CISP1020	Computer Science 2	4

SOPHOMORE FALL		(15 HRS)
CITC1312	Introduction to Network Programming	3
CITC1318	Data Structures	3
CITC2335	Systems Analysis and Design	3
	<i>Humanities/Fine Arts General Education Elective</i>	3
	<i>Social and Behavioral Science General Education Elective</i>	3

SOPHOMORE SPRING		(16 HRS)
CISP2410	Assembly and Computer Organization	3
CITC2310	Advanced Network Programming	3
CITC2375	Internet Software Development	3
CITC2390	CIT Capstone	3
CITC2399	CIT CO-OP/Internship	4
	<i>Directed Natural Science Elective</i>	4

TWO-YEAR TOTAL (65)

TUITION/FEES

FINANCIAL AID

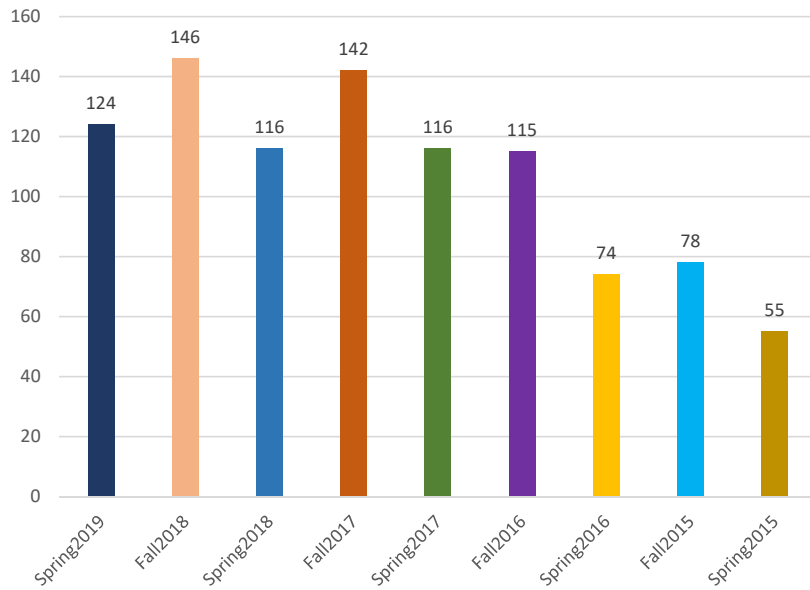
ACADEMIC MAP

For more information about the Computer Information Technology A.A.S. degree call 423.697.4434

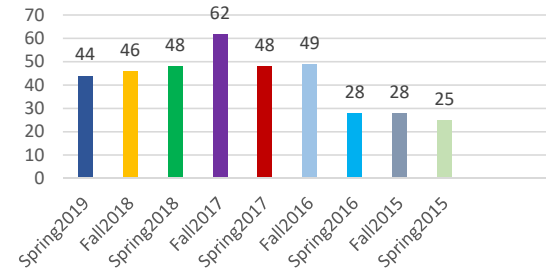
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Enrollment Statistics

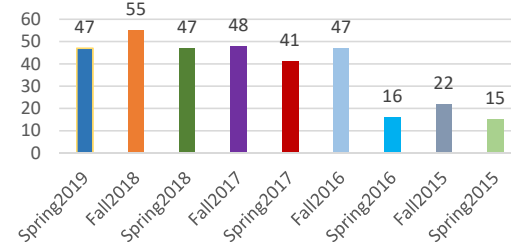
TTP A.S Computer Science



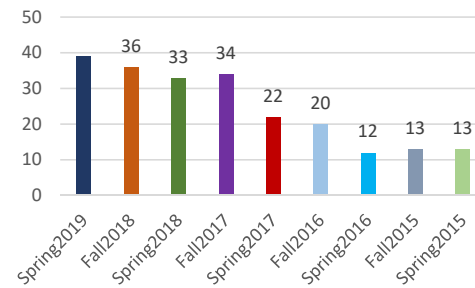
A.A.S Networking



A.A.S Programming



A.A.S Cyber Defense



Internships required for AAS programs

- 200 hour internship is built into our AAS program.
- Student works with a professor and business to sign a contract on the project statement of work and deliverables.
- Student reports weekly progress.
- On completion, student gets paid internship and receive 3 credit hours.
- Professor assigns grade based on student report as well as feed back from Business on student work ethic, time management, task completion and enhancement of skills.

Spring 2019 Statistics

Spring 2019 Headcount

Program	Total	F	M	American Indian	Asian	Black or African American	Hispanic	Multiracia l	White	<18 yo	18-23	24+	Pell Elig	First Gen	Acad UnderPrep
AAS-CIT-Cyber Defense	14	2	12	0	0	1	0	0	13	1	4	9	7	5	8
AAS-CIT-Game Programming	1	0	1	0	0	0	0	0	1	0	1	0	1	0	0
AAS-CIT-Networking	28	2	26	0	1	2	1	1	23	0	7	21	12	10	19
AS-UTPS-Computer Science	80	12	68	1	2	6	8	4	59	0	55	25	35	22	43
Total	123	16	107	1	3	9	9	5	96	1	67	55	55	37	70

Challenges

- Training today's students to be able to analyze and implement new technologies that currently do not exist is the greatest challenge of technology instructors. We are training students to be able to adapt and apply skills learnt to solve problems.
- With growing business needs to hire trained IT professionals and lack of graduates to support the business needs has become a bottleneck.

IT Entrepreneurship Project – bridging the skills gap

- Recruiting Board Members (Business and Industry Team - BILT)
- Administrative approvals, Facilities
- Marketing – photo release forms, social media
- Industry collaborators – Business and Industry Judges
- Volunteers
- Participants
- Sponsors
- Parking
- Student Presentations
- Student / IAB panel discussions (students interview BILT)

Our Partners and Collaborators

- EPB
- Blue Cross Blue Shield BCBS
- Chattanooga Technology Council
- McKee Foods
- Ostracon
- UNUM
- Sword and Shield
- Data Blue
- Comcast
- City of Chattanooga
- DC Blox
- Hamilton County
- UTC
- Oak Ridge National Lab
- Volkswagen
- Chattanooga State Workforce Development
- Chattanooga State ICARE

IT Entrepreneurship

- Eight student teams participated in the Systems Analysis and Design class (CITC-2335) taught by Savitha Pinnepalli as they presented IT entrepreneurship projects to judges from the business and industry sector
- The project specifications challenged students to develop an IT company from scratch.
- Each team developed marketing materials that included logos, business cards, brochures, a website and social media outlets to promote their company. Using Visio, they created organizational charts, while budgets were prepared using Excel spreadsheets and Microsoft Project Management software that included equipment and software acquisition for their companies.
- Finally, each team created a database, a website and used PowerPoint to present their work. They also submitted their research documentation on eLearn LMS and provided hard copy binders to BILT.

Poster for the Service Learning Conference.



Grading Rubric for judges

CITC – 2335 4/17/2018 5:30 – 6:30 pm CETAS 215 Project Evaluation Form				
Name:	Presentation Date:			
Topic:	Team Number:			
Area Each Step is worth 50 points	Excellent 50 pts	Good 40 pts	Fair 30 pts	Points Earned
Step1: <ul style="list-style-type: none"> • Title: Your company Name • Team Members: • Linked in profile, sample resume, cover letter and any copy of any certificates you have obtained. • Goal or mission of your company • How will you market your company? (News Paper Ads, TV ads, Flyers, Social Media, brochures, website (Wix.com), presentation, Fairs, Public Domain, Business cards) Display at least three items in binder. 				
Step2: You can create a fake company or collaborate with a real company. <ol style="list-style-type: none"> 1. If you are planning on working on a fake company you created, you will have to create the problems and solve them. 2. Working with a real company will help you receive data and content they currently have and your task will be to improve the Business Process Model. <ul style="list-style-type: none"> • Estimate total budget needed to run your company for one semester (Excel Spreadsheet). Include budget for personnel, items needed, hours of work needed etc. on an excel spreadsheet. • Create organizational chart using Visio 2016 software to include your team members and nominate a leader for your team. • Create a Project Timeline with tasks and deadlines using Microsoft Project 2016 Application • Implement some part of your project in to a database. Create queries, forms and reports (use access or php mysql) 				
Step3: Data Flow diagram for your project. Create a database to implement your project.				
Step4: Project presentation- Power Point Binder with all documents Electronic File Submission via github and				
TOTAL:200 Points				

Artifacts collected

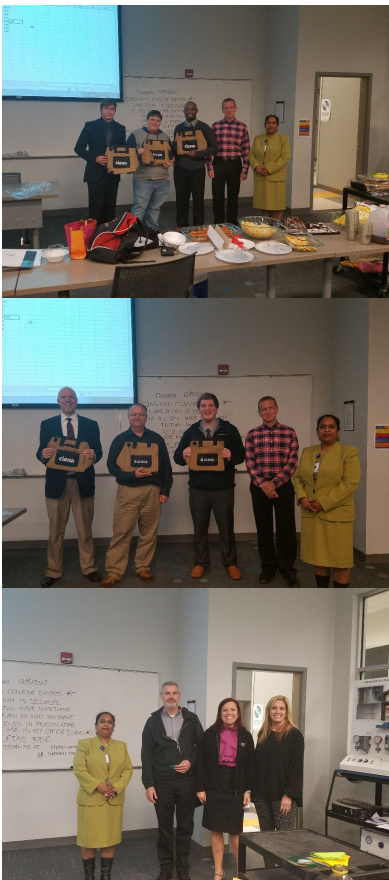
1. Mission of the IT company.
2. Organization Chart using Visio.
3. Financial Budget sheet in excel.
4. Microsoft Project timeline and resource allocation.
5. Website
6. Database
7. Marketing materials – brochure, newspaper ads, infographics
8. Presentation
9. Social Media – LinkedIn, GitHub, twitter, Facebook
10. Job preparation materials – resume, cover letter, references, thank you letter, business cards (adobe spark).
11. ePortfolio using digication

Golden Rules



1. Work harder than everyone!
2. Show up early, stay late when needed
3. Enjoy a challenge & be flexible
4. Look for ways to improve (learn from failure)
5. Be teachable
6. Have a spirit of excellence
7. Have a optimistic & positive attitude
8. Align yourself with the Alphas (find good mentors)
9. Be grateful, not a complainer
10. Be a good negotiator
11. Continue Your Education (NEVER STOP LEARNING!)

Fall 2017 cohort



Spring 2018 cohort



Fall 2018 cohort



BRING YOUR A GAME TO WORK

In work, as in life, the greatest rewards are reserved for those who jump in with both feet, roll up their sleeves, and do their best.



Classroom Strategies for Teaching Employability Skills

- Technical Writing
- Communication
- Critical Thinking
- Dependability
- Digital Footprint
- Social Media
- Service / volunteer hours in a computer related field
- Resume Writing
- Interview Skills
- Never stop learning

Top 10 Soft Skills for Success

- **Dependability** – Being dependable means that you do what you say you will, when you say you will. You can be trusted to complete any task, and you will do it well.
- **Motivation** – You should be able to motivate yourself to get tasks done, and take the initiative to find new ways to improve upon not only yourself and your work, but also your organization.
- **Communication** – This is one of those skills you hear about all the time, and that's for a reason. Communication is the key to any human interaction, especially in the workplace.
- **Commitment** – Employers want to know that you're not only committed to the company and your job, but to turning out the best work you can, every time.
- **Creativity** – Can you think about problems in a new and interesting way? Show your employer how.

Top 10 Soft Skills for Success

- **Problem Solving** – If you're confronted with a problem, employers want to know that you will do everything you can to fix it. Your creative skills will come in handy here.
- **Flexibility** – Sometimes, your job is going to be a little like a roller coaster. Can you adjust to the chaos?
- **Teamwork** – You're not done with group work after graduate school. Working in a team is an essential part of almost every job.
- **Leadership** – You may not be a natural born leader, but can you step up and guide either a group of people or a process if necessary?
- **Time Management** – Life gets busy, both in and out of the workplace. You need to be able to balance your workload and prioritize what gets done.

<http://www.nationalsoftskills.org/top-10-soft-skills-for-success/>

Empower students to succeed with Skills and Training

- The best way to prepare the next generation of IT Professionals
- Hard Skills (Technical)
- Soft Skills (Behavior)
- Experience (contextual , Job shadowing, internships, volunteering)
- Job Market Insights (Opportunity Data)
- Skills like communication, time management and conflict resolution are critical in the workplace, and being able to demonstrate them can really help a student stand out in today's competitive job market.

Computer Lecture Series - Presenter Feedback

Computer Science Lecture Series

WORKSHOP EVALUATION

Thank you for your participation. Your feedback will help us when planning future programs.

Date of Workshop 2/27/2018

Workshop Title Sword and Shield – Cyber Defense Careers

Presenter Rob Ashcraft

Was the speaker knowledgeable of their topics? Yes No

Did the speaker encourage audience participation or feedback? Yes No

Will you be able to utilize the information obtained in this workshop?

<input type="checkbox"/>	Very Useful
<input type="checkbox"/>	Somewhat Useful
<input type="checkbox"/>	Not Useful

Were the handouts helpful? Yes No

How would you rate the speakers?

Poor					Excellent
	1	2	3	4	5

Do you have comments or suggestions?

Thank You!

- Lean Six Sigma Project Management – UTC, Arbha Wolday
- Innovations of the Future – Kenco, Kristi Montgomery
- Cyber Defense careers – Sword & Shield Rob Ashcraft
- PMP certification – LSU, Dr. Sai Pinnepalli
- Database tips from a Data Scientist – Very, Jeff McGehee
- IT at Chattanooga State Community College, Bruce Carlisle
- Big Data, Lone State College, Rajeev Malkan
- DC Blox, Benny Middleton
- Computer Ethics, Southern Adventist University, Michael Dant
- Cesar Salazar, TBI, "Internet Crimes"
- Ed Merritt, Hamilton County Sheriff's Dept. "Mobile Forensics"
- Machine Learning & Cyber Security: How Smart Can It Be?" given by Shayne Champion, Chief Information Security Officer for Conversant Group.

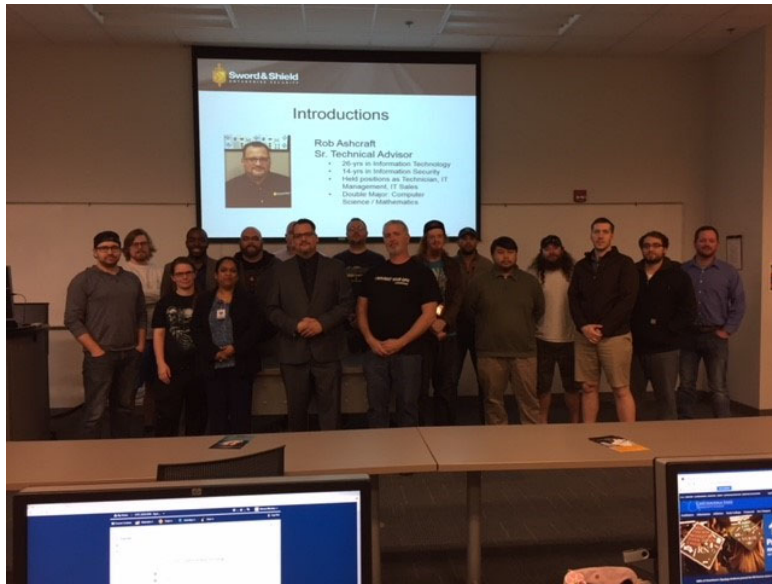
Field Trip to Oak Ridge National Labs



Super Computers – Summit, Titan, The Exploratory Visualization Environment for Research in Science and Technology (EVEREST)



Computer Science Lecture Series / Field Trips



IT HUB CLUB Student Organization

Tutoring						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00 - 9:00 a.m.						Jay Patel CETAS 341
9:00 - 10:00 a.m.	Jacob 9:45 Max Cat 33	Jacob Max Cat 33	Jacob 9:45 Max Cat 33	Jacob 9:45 Max Cat 33	Jacob 9:45 Max Cat 33	Jay Patel CETAS 341
10:00 - 11:00 a.m.	Micheal CAT 33	Jacob 10:45 Cat 33	Micheal CAT 33	Jacob 10:45 Cat 33	Amy Max CAT 33	Jay Patel Jacob CETAS 341
11:00 - 12:00 p.m.	Micheal CAT 33	Amy Michael CAT 33	Micheal CAT 33	Amy CAT 33	Amy Max CAT 33	Jay Patel Jacob CETAS 341
12:00 - 1:00pm	Amy CAT 33	Amy CAT 33	Amy CAT 33	Amy CAT 33	Amy Max CAT 33	Jay Patel Jacob CETAS 341
1:00 - 2:00 p.m.			Jay Patel CETAS 215			Jay Patel Jacob 1:15 CETAS 341
2:00 - 3:00 p.m.			Jay Patel, Jacob, Amy CETAS 215		Jay Patel CETAS 215	Jay Patel CETAS 341
3:00 - 4:00 p.m.			3:15 Jay Patel CAT 33		Jay Patel CETAS 215	
4:00 p.m. - 5:00 p.m.		Jay Patel CETAS 341		Jay Patel CETAS 341	Jay Patel CETAS 215	

Alan Eady – President
 Rogers Jonathan – Vice President
 David Browning – Treasurer
 Henle Edward – Secretary
 Neou Lechere – representing women in IT
 Providing free tutoring

Social Media and News Papers



Business And Industry Leaders Judge Chattanooga State Entrepreneur Projects

Saturday, January 27, 2018



Eight student teams participated in the Systems Analysis and Design class (CITC-2335) taught by Savitha Pinnepalli, Computer Information Technology department head and assistant professor, as they presented IT entrepreneurship projects to judges from the business and industry sector to complete the fall 2017 semester.

The project specifications challenged students to develop an IT company from scratch.

<http://www.chattanooga.com/2018/1/27/362305/Business-And-Industry-Leaders-Judge.aspx>

ePortfolio

ePortfolios are digital collection of projects, coursework, extracurricular activities, volunteer experience, awards, references, letters of recommendation. ePortfolios are digital repositories of student work that transforms students' educational experiences.

https://chattanooga.state.digication.com/home_guest.digi

At Chattanooga State CIT department System Analysis and Design class, students:

- Create one page report with graphics, statistics, links and contact information (Infographic) of their IT entrepreneurship project.
- Create Resume, cover letter, references and thank you letter for future employers.
- Create LinkedIn Profile, Git Hub, twitter account, business card (adobe spark) as their social media marketing strategy.
- Conduct Self evaluation and Reflection.

Personal Branding

Personal Branding is really all about how we market ourselves. This includes our education, career, work ethics, interests, goals etc. Ongoing process of establishing our image, telling our story and a method of attracting like minded individuals.

- Conduct SWOT strength, weakness, opportunities and Threats analysis
- Set Career goals
- Identify what makes you unique
- Have an elevator speech
- Obtain Feedback from peers to correct your flaws
- Build an online presence using e-Portfolio, LinkedIn, Git Hub and Social Media marketing strategies.
- Be credible, authentic, consistent, embrace who you are and lead by example.
(practice what you preach)

Networking

- Grow your network
- Join local groups with similar interests (meetups)
- Attend local events
- Introduce yourself to others (elevator speech)
- Make the right first impression
- Find or create your own opportunities
- Be confident
- Be prepared (e-portfolio)
- Volunteer, intern, be the first to offer help
- Get involved

Professional Online Presence

- Website
- About Me
- References
- Letters of Recommendation
- Certifications
- Awards
- Internships
- Projects
- Workshops/Conferences
- Volunteer Work
- Professional Memberships (ACM, IEEE, League, WIT etc.)

Career Exploration: Research skills needed in your field to get hired

- Job titles
- Skills needed
- Career Resources
- Salary databases
- Indeed
- Glassdoor
- Modis Salary Guide
- Monster



Securing a job interview and getting hired

- Interview questions :
 - About yourself (elevator speech)
 - Your education
 - Your experience in the field
 - What do you know about the company/ organization that you are interviewing?
 - What skills do you have?
 - What are your strengths, what is your weakness?
 - Team work makes the dream work. There is no I in TEAM.
 - Community service, volunteer work, hobbies , meet up groups, conferences, social media , travel, family.

Self Improvement and Professional Development- Never stop Learning!

- Personality test
<https://www.personalityperfect.com/test/free-personality-test/>
- TED Talks
- Lynda.com
- Code Academy
- Khan Academy
- Udemy
- Educause
- LinkedIn
- [Massive open online course MOOC's](#)

Student Activities

- Skills USA Programming competitions
- IT HUB club activities
- Planning on Hackathon
- Planning PC Clinic
- Planning Field Trip to Oak Ridge National Labs, UTC sim center
- Cyber Seniors Service Learning
- CHATECH scholarships
- Course Integrated Projects

Students interviewing BILT



Resources

Cyber Threat maps

- <https://www.fireeye.com/cyber-map/threat-map.html>
- <https://cybermap.kaspersky.com/>
- <https://www.deteque.com/live-threat-map/>
- <https://threatmap.fortiguard.com/>
- <https://threatmap.bitdefender.com/>
- <https://threatbutt.com/map/>
- <http://www.nationalsoftskills.org/top-10-soft-skills-for-success/>

CONTACT

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