English Language Institute & Social Science Faculty

TracDat Workshop, Fall 2009

Thursday, December 10, 2009, Technology Center, Room 1221, 9:00am-12:00pm

Sign In Sheet

Name	Department	Signature
Aguon, Rebecca	English Language Institute	
Armstrong, John	Social Science	
Baza-Cruz, Lisa	English Language Institute	
Galvez-Reid, Carol	English Language Institute	
Huseby, Polli	English Language Institute	
Munoz, Jose	Criminal Justice/Social Science	
Salas, Judy	English Language Institute	
San Nicolas, Brian	Social Science	
Tam, Wilson	English Language Institute	
Tenorio, Juanita (Tico)	English Language Institute	
Cabot.c, Antonia (Toni)	E.L.I.	
Kerr, Jonita	Science	

SLOs - Moving Beyond Basics

Fall 2009 Integrated TracDat/SLO Training

Technology Dept. @ 10/2/09 3-5 pm TC1221

Upon successful completion of this training, participates will be able to:

- Revisit and enhance SLOs (Bloom's Taxonomy & industry standards).
- Explain the curricula process needed to publish remaining course SLOs in the catalog by the end of this academic year.
- Demonstrate familiarity with the 16 Career Clusters & Federal Website
- Discuss the importance of aligning SLOs in course guide with SLO Map, catalog, syllabi, and assessment plans.

1. Bloom's Taxonomy (Higher Order Thinking)
2. Status of Department's Course SLOs
    a. Course SLOs and prerequisites in Current Catalog
    b. List of Remaining Courses that Need SLOs Published
    c. Review of Curricula Process and Unfinished SLO Maps
3. Connection of SLOs to Industry/Association Standards
4. Brief Overview of Establishing Guam's CTE Pathway System
    a. Career Clusters Website: www.careerclusters.org
    b. Overview of the 16 Federal Career Clusters
    c. Connection of Clusters/Pathways to GCC Courses & Programs

The only constant is change, continuing change, inevitable change that is the dominant factor in society today. No sensible decision can be made any longer without taking into account not only the world as it is, but the world as it will be. — Isaac Asimov

Bloom's Classification of Cognitive Skills

Bloom's classification of cognitive skills is widely used in instruction planning. The six levels are arranged by level of complexity. Use of Bloom's classification systems is recommended to safeguard against a tendency to focus on content coverage and to ignore what the students should learn to do with content.

Category	Definition	Related Verbs
Knowledge	recalling or remembering something without necessarily understanding, using, or changing it	define, describe, identify, label, list, match, memorize, point to, recall, select, state
Comprehension	understanding something that has been communicated without necessarily relating it to anything else	alter, account for, annotate, calculate, change, convert, group, explain, generalize, give examples, infer, interpret, paraphrase, predict, review, summarize, translate
Application	using a general concept to solve problems in a particular situation; using learned material in new and concrete situations	apply, adopt, collect, construct, demonstrate, discover, illustrate, interview, make use of, manipulate, relate, show, solve, use
Analysis	breaking something down into its parts; may focus on identification of parts or analysis of relationships between parts, or recognition of organizational principles	analyze, compare, contrast, diagram, differentiate, dissect, distinguish, identify, illustrate, infer, outline, point out, select, separate, sort, subdivide
Synthesis	creating something new by putting parts of different ideas together to make a whole.	blend, build, change, combine, compile, compose, conceive, create, design, formulate, generate, hypothesize, plan, predict, produce, reorder, revise, tell, write
Evaluation	judging the value of material or methods as they might be applied in a particular situation; judging with the use of definite criteria	accept, appraise, assess, arbitrate, award, choose, conclude, criticize, defend, evaluate, grade, judge, prioritize, recommend, referee, reject, select, support

SLOs from Fall 2009 Catalog

Technology Dept (formerly Electronics & Computer Science

6 out of 18 CS post secondary courses still need SLOs

7 out of 19 EE post secondary courses still need SLOs

CS101 INTRODUCTION TO COMPUTER SYSTEMS & INFORMATION TECHNOLOGY (3)

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Demonstrate knowledge of computer hardware and software concepts.
2. Apply computer skills to navigate around a computer, choose the proper application software to produce a desired result and access information on the World Wide Web.
3. State the social and ethical implications of computers in business and society.

CS102 COMPUTER OPERATIONS (3)

Prerequisite: CS101

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Contract single user and multi-user operating systems.
2. Use system utilities at the basic level on AS/400.
3. Create a simple menu system using Command Language (CL) program and Screen Design Aid (SDA).

CS103 RPG II (3)

Prerequisite: CS103

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Comprehend basic syntax and command structure.
2. Properly use commands to create programs to solve problems.
3. Debug programs to find syntax and logical errors.

CS104 VISUAL BASIC PROGRAMMING (3)

Prerequisites: CS101, MA108

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Comprehend basic syntax and command structure
2. Properly use commands to create programs to solve problems.
3. Debug programs to find syntax and logical errors.

CS110 INTRODUCTION TO INTERNET (3)

Prerequisite: OA101

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Use the Internet to communicate, collaborate and retrieve information.
2. Identify positive social and ethical behaviors when using technology and the consequences of misuse.
3. Plan, design and publish a Web site.

CS151 WINDOWS APPLICATIONS (3)
Prerequisites: OA101, OA120

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Create, edit, format and print documents using Microsoft Word.
2. Create spreadsheets and charts to solve problems that involve numeric data using Microsoft Excel.
3. Create databases to store, retrieve, analyze and print information using Microsoft Access.
4. Create, edit, and format professional presentations using Microsoft PowerPoint.

CS202 COBOL (3)
Prerequisite: CS101

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Comprehend basic syntax and command structure
2. Properly use commands to create programs to solve problems.
3. Debug programs to find syntax and logical errors.

CS203 SYSTEMS ANALYSIS & DESIGN (3)
Prerequisites: CS101, CS103, CS104, CS202, CS204

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Investigate the initial system request.
2. Analyze various aspects of the system request, and produce system requirement documents
3. Design the solution to meet the system requirement documents (virtual solution).
4. Develop program code to meet the system requirement (actual solution).
5. Implement the actual solution into the system and fine tune it to best meet the needs of the users.

CS204 C PROGRAMMING (3)
Prerequisites: CS101, CS103, CS104, CS202, MA110

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Comprehend basic syntax and command structure
2. Properly use commands to create programs to solve problems.
3. Debug programs to find syntax and logical errors.

CS205 NETWORK COMMUNICATIONS (4)
Prerequisite: EE111

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Identify the hardware and software components of a local area network.
2. Describe various LAN topologies and communication standards.
3. Identify and perform LAN backup procedures.

CS252 ADVANCED RPG II (3)
Prerequisites: CS101, CS103

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Comprehend basic syntax and command structure.
2. Properly use commands to create programs to solve problems.
3. Debug programs to find syntax and logical errors.'
4. Integrate the previously covered material into a larger complex system (using RPG, CL, SEU, SDA, IDDU, etc).

CS298 CO-OP/WORK-LEARN (3)
Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Obtain supervised work experience to develop skills necessary to succeed in information technology positions.
2. Demonstrate effective human relation skills with co-workers and subordinates according to the expectations of a supervisor.
3. Apply principles of personal responsibility and ethical behavior to the community and in the workplace.

EE103 ELECTRICITY I: DIRECT CURRENT CIRCUITS (4)
Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Describe how to measure voltage, current and resistance on electrical circuits.
2. Identify different types of conducting materials and its electrical properties.
3. Describe and apply omh's law formulas in solving electronic and electrical problems.
4. Use electronic and electrical handtools properly.
5. Perform laboratory experiments in direct current circuits.

EE104 ELECTRICITY II - ALTERNATING CURRENT CIRCUITS (4)
Prerequisites: EE103, MA110A

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Identify and describe safety rules as applied to electricity and electronics.
2. Describe how to use laboratory oscilloscope to measure voltage, frequency, and period (time).
3. Illustrate and explain different transformers turn's ratio, voltage ratio, and current ratio.
4. Describe resonance and its effects in electronic communications circuits.
5. Perform laboratory experiments in alternating current circuits.

EE112 ELECTRONIC DEVICES (4)
Prerequisite: EE104

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Design a power supply circuit.
2. Identify each part of a power supply system.
3. Calculate the voltage gain for a transistor amplifier circuit.

EE116 DIGITAL TECHNOLOGY (4)
Prerequisites: EE104, EE112

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Design a simple counter circuit.
2. Simplify logic circuits using k-map.
3. Identify different types of logic circuits.

EE211 IT ESSENTIALS I (4)
Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Perform a step by step assembly of a desktop computer tower.
2. Explain, install, and navigate an operating system; upgrade component base on customer needs and perform preventive maintenance and troubleshooting.
3. Upgrade security components based on customer needs and perform preventive maintenance and troubleshooting.

EE215 IT ESSENTIALS II (4)
Prerequisite: EE290

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Install the Linux network operating systems
2. Identify various Network application protocol.
3. Differentiate between the Linux and Windows 2000 network operating systems.

EE242 PRINCIPLES OF VOICE AND DATA CABLING (2)
Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Design basic network infrastructure systems.
2. Install, terminate, and test network cabling systems.
3. Define standards and codes pertaining to the IT field.
4. Pass National Certification Exam (Data Cabling Installer Certification), sponsored by Electronics Technicians Association (ETA).

EE243 FIBER OPTICS INSTALLATION (3)
Prerequisites: EE103, EE104, EM103, EM104

Student Learning Outcomes (SLOs):
Upon successful completion of this course, students will be able to:

1. Install, terminate, and splice fiber optic cables.
2. Troubleshoot and repair fiber optic cables.

3. Use test equipments for troubleshooting (light source & power meter, optical time domain, reflectometer, & visible light source).

EE265 COMPUTER NETWORKING ACADEMY I (4)

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Recognize the devices and services that are used to support communications across an Internetwork.
2. Design, calculate, and apply subnet masks and addresses to fulfill given requirements.

EE266 COMPUTER NETWORKING II (4)

Prerequisite: EE265

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Install, configure, and troubleshoot Cisco IOS devices for Internet and server connectivity.
2. Describe the Open systems Interconnect (OSI) model and the process of encapsulation.

EE267 COMPUTER NETWORKING III (4)

Prerequisite: EE266

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Configure a switch with VLANs and inter-switch communication.
2. Implement access lists to permit or deny specified traffic.
3. Configure routing protocols on Cisco devices.

EE268 COMPUTER NETWORKING IV (4)

Prerequisite: EE267

Student Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

1. Design a simple Internetwork using Cisco technology.
2. Design an IP addressing scheme to meet LAN requirements.
3. Install and configure a prototype Internetwork.

List of Courses that still need SLOs published in catalog

CS152 MACINTOSH APPLICATIONS (3)
Prerequisite: OA101

CS210 WINDOWS PROFESSIONAL (3)
Prerequisite: OA101 or permission from a Computer Science Advisor.

CS215 WINDOWS SERVER (3)
Prerequisite: CS210 or permission from a Computer Science Advisor

CS216 WINDOWS NETWORK INFRASTRUCTURE (3)
Prerequisites: CS205, CS210, CS215

CS217 WINDOWS DIRECTORY SERVICES (3)
Prerequisites: CS205, CS210, CS215

CS290 SPECIAL PROJECT (3)

EE107 INTRODUCTION TO INSTRUMENTATION (3)
Prerequisite: EE112, which can be taken concurrently with this course

EE110 INSTRUMENTATION (3)
Prerequisite: EE107

EE271 ADVANCED NETWORK PROFESSIONAL I (4)
Prerequisites: EE268 or CCNA Certification

EE274 ADVANCED NETWORK PROFESSIONAL II (4)
Prerequisite: EE268 or CCNA Certification. CCNP 1 desired but not required. Work Experience beneficial

EE275 ADVANCED NETWORK PROFESSIONAL III (4)

EE280 NETWORK SECURITY I (4)

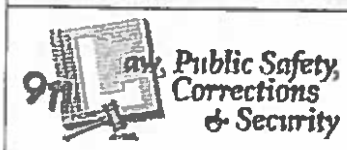
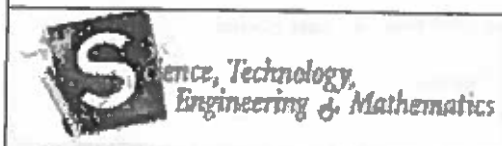
EE281 NETWORK SECURITY II (4)

The 16 Career Clusters and Pathways

**** Guam's Five Year CTE State Plan (2008-2013) targets 6 of the 16 Career Clusters: Architecture & Construction; Education & Training; Health Science; Hospitality & Tourism; Information Technology; and Transportation, Distribution & Logistics***

Career Clusters	Pathways
	Food Products and Processing Systems Plant Systems Animal Systems Power, Structural & Technical Systems Natural Resources Systems Environmental Service Systems Agribusiness Systems
	Design/Pre-Construction Construction Maintenance/Operations
	Audio and Video Technology and Film Printing Technology Visual Arts Performing Arts Journalism and Broadcasting Telecommunications
	General Management Business Information Management Human Resources Management Operations Management Administrative Support

	Administration and Administrative Support Professional Support Services Teaching/Training
	Securities & Investments Business Finance Accounting Insurance Banking Services
	Governance National Security Foreign Service Planning Revenue and Taxation Regulation Public Management and Administration
	Therapeutic Services Diagnostic Services Health Informatics Support Services Biotechnology Research and Development
	Restaurants and Food/Beverage Services Lodging Travel & Tourism Recreation, Amusements & Attractions
	Early Childhood Development & Services Counseling & Mental Health Services Family & Community Services Personal Care Services Consumer Services

	Network Systems Information Support and Services Web and Digital Communications Programming and Software Development
	Correction Services Emergency and Fire Management Services Security & Protective Services Law Enforcement Services Legal Services
	Production Manufacturing Production Process Development Maintenance, Installation & Repair Quality Assurance Logistics & Inventory Control Health, Safety & Environmental Assurance
	Marketing Management Professional Sales Merchandising Marketing Communications Marketing Research
	Engineering and Technology Science and Math