



SNET Study Program

A Fairfield University E-Program
in Three Courses
Powered by LearnLinc

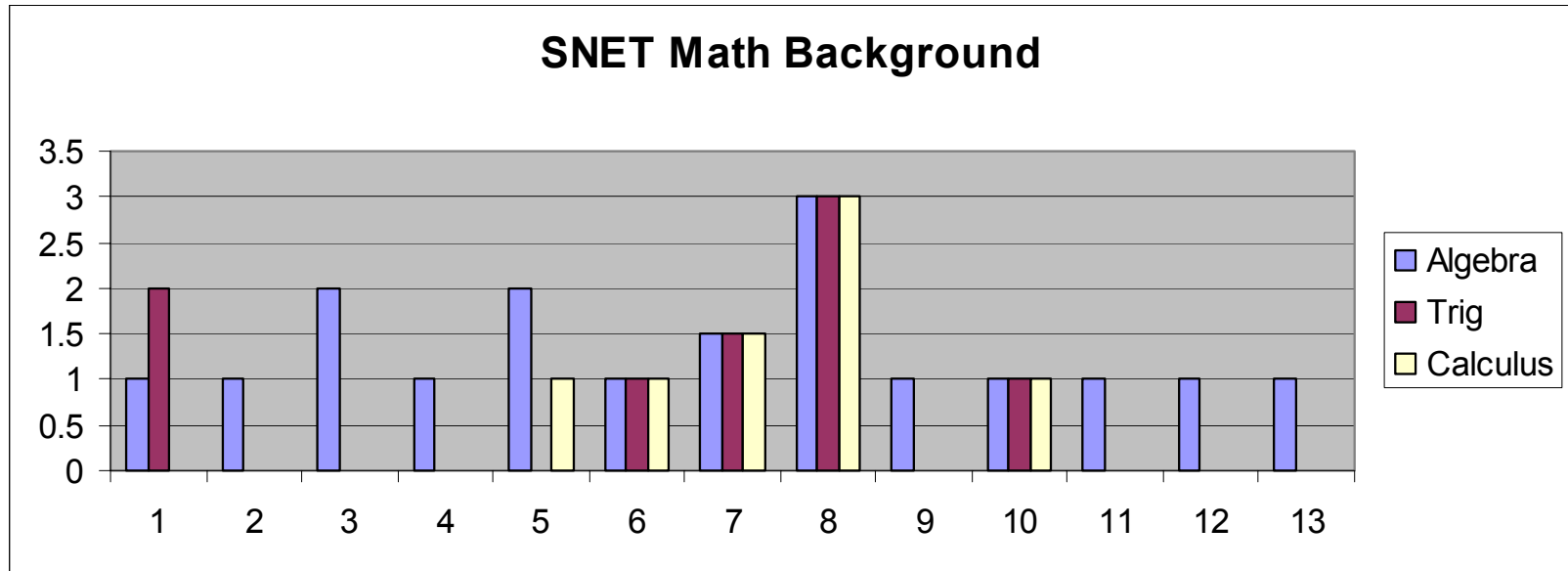
Introductions

- Instructor: Jeffrey N. Denenberg (DoctorD)
 - Phone
 - Home: (203) 268-1021
 - Fairfield: (203) 254-4147
 - Fax
 - efax: (978) 359-7977
 - Email: jeffrey.denenberg@ieee.org
 - Fairfield Site: <http://www.ffldusoe.edu/faculty/Denenberg/DoctorD.htm>
 - Personal Site: <http://doctord.webhop.net/>
 - LearnLinc: <http://learnlinc2.ffldusoe.edu/learnlinc>

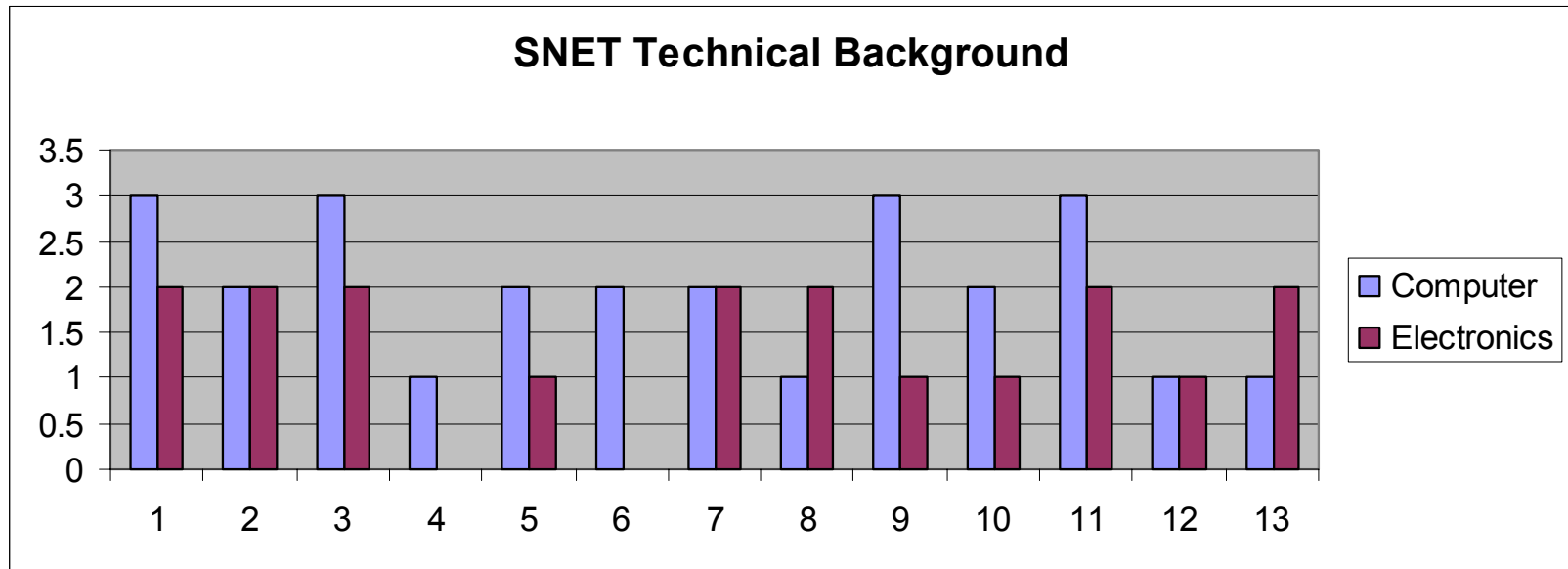
LearnLinc

- Screen Layout
- Raising your Hand
- Answering a Question
- Text Chat (Private vs. Public)
- Student Control
 - Speaking
 - Application
- Computer Requirements
 - Reasonable PC running Windows 95 or better
 - Fast Connection to the Internet (56K modem or better)

Introductions (Continued)



Introductions (Continued)



Introductions (Continued)

- You
 - Name
 - Position
 - Location
 - Reason for taking this course
 - Technical background

Course Objectives

- Prepare students to take the nine part Comprehensive Mastery Test.

Note: Successful students may be qualified to matriculate towards an Associates and/or Bachelors degree in Engineering.

Course Structure

- Three Courses
 - Each has 3 modules
 - 5 / 10 on-line sessions
 - Most modules include one or two laboratory experiences
 - On site at Fairfield University on Saturdays
 - Half day.
- Two sessions per week
 - On line using LearnLinc
 - One hour at noon
- Requires about 18 months to complete

Course 1: Circuits and Applied Technical Mathematics

- Basic Electricity
 - 10 on-line sessions, 2 laboratory sessions
- Basic Electronics
 - 10 on-line sessions, 2 laboratory sessions
- Applied Technical Mathematics
 - 5 on-line sessions, 1 laboratory session

Mastery Test preparation: 1, 2, and 8

Module: Basic Electricity

(DC Circuits In two parts)

- Text:
 - “Electricity One-Seven,” Harry Mileaf, Prentice-Hall, 1996, ISBN 0-13-889585-6 (Covers much more material than this section)
- References:
 - “Digital Mini Test: Principles of Electricity Lessons One and Two,” SNET Home Study Coordinator, (203) 771-5400
 - [Electronics Tutorial](#) (Thanks to Alex Pounds - alex_tb@hotmail.com)
 - [Electronics Tutorial](#) (Thanks to Mark Sokos - sokos@desupernet.net)
- Electron Flow and Resistance
 - 5 on-line sessions plus one lab
- Inductance and Capacitance
 - 5 on-line sessions and one lab

Module: Basic Electronics

(AC Circuits and Impedance: two parts)

- Text: “Electricity One-Seven,” Harry Mileaf, Prentice-Hall, 1996, ISBN 0-13-889585-6 (Covers much more material than this section)
- References:
 - “Digital Mini Test: Principles of Electricity Lessons One and Two,” SNET Home Study Coordinator, (203) 771-5400
 - [Electronics Tutorial](#) (Thanks to Alex Pounds - alex_tb@hotmail.com)
 - [Electronics Tutorial](#) (Thanks to Mark Sokos - sokos@desupernet.net)
- Alternating Current
 - 5 on-line sessions plus one lab
- Impedance and Filters
 - 5 on-line sessions plus one lab

Module:

Applied Technical Mathematics

- Text: “Basic Mathematics,” Bittinger and Keedy, Addison-Wesley, 2000, ISBN 0-201-95958-5
- References: [DAU Math Refresher](#)
(Thanks to the Center for the New Engineer, George Mason University)
- Portions imbedded in the first two modules
- 5 on-line sessions plus one lab

Course 2: Electronics and Telecommunications

- Electronic Devices
 - 10 on-line sessions plus 2 laboratory sessions
- Fundamentals of Transmission Systems
 - 10 on-line sessions plus 2 laboratory sessions
- Telecommunications Fundamentals
 - 5 on-line sessions plus one laboratory session
- ***Mastery Test preparation
Parts 3 and 6***

Module: Electronic Devices (Diodes, Transistors, ...)

- Text: “Electronics,” Harry Kybett, Wiley, 1986, ISBN 0-471-00916-4
- References:
 - [Electronics Tutorial](#)
(Thanks to Alex Pounds - alex_tb@hotmail.com)
 - [Electronics Tutorial](#)
(Thanks to Mark Sokos - sokos@desupernet.net)
- Electronic Devices
 - 5 on-line sessions plus Lab

Module: Fundamentals of Transmission Systems

- Text:
 - “Telecommunications,” Blyth, McGraw-Hill, 1990, ISBN 0-02-680841-2
 - “Understanding Telephone Electronics,” Bigelow, Newnesl, 1997, ISBN 0-7506-9944-2
- References:
 - [Telephone History](#) (Thanks to Tom Farley - [Telephone History](#))
 - [Analog Modulation](#) (Thanks to Geocities)
- 10 on-line sessions plus 2 laboratory sessions

Course 3: Digital

- Computer Principles
 - 10 on-line sessions, 2 laboratory sessions
- Problem Solving
 - 5 on-line sessions
- Fundamentals of business writing
 - 5 on-line sessions
- ***Mastery Test preparation
Parts 4, 5, 7 and 9***

Module 5: Computer principles

Two Parts

- Text: “Computers, Tools for an Information Age,” H. L. Capron, Benjamin Cummings, 1996, ISBN 0-8053-0662-5
- References:
 - [Digital Logic Tutorial](#) (Thanks to Ken Bigelow at www.play-hookey.com)
 - [Electronics Tutorial](#) (Thanks to Alex Pounds - alex_tb@hotmail.com)
- Digital Electronics
 - 10 on-line sessions plus 2 labs
- Computers
 - 5 on-line sessions plus one lab

Mastery Test, Part 4 and 5

Module: Problem Solving

- Text: “Basic Mathematics,” Bittinger and Keedy, Addison-Wesley, 2000, ISBN 0-201-95958-5
- 5 on-line sessions plus one lab

Mastery Test, Part 7

Module: Fundamentals of Business Writing

- 5 on-line sessions plus one lab
- Presented by Patricia Earnest

Mastery Test, Part 9