ABSTRACT

This packet is a compilation of short units and quick review assignments used in the Oleanna Math Program at Skagit Valley College (Washington). This math program is taught in an auto-tutorial learning laboratory situation with programmed materials. Each unit of study is contained on a 5" by 8" card, which describes performance objectives, prerequisites, approximate completion time, and necessary texts and other materials. The masters are supplied in this document on 8 1/2" by 11" stock, but copies may be cut to 5" by 8" sheets to meet access and filing needs. These sheets are easily re-arranged for special needs of the reader, whether he is a student, learning laboratory instructor, or counselor. File categories include: mathematical principles, calculating devices, (slide rules, hand calculators, etc.), data processing, applications (nursing, business administration, consumer mathematics, science, metric system), fun, miscellaneous, locally developed modules, and local courses developed from Smorgasbord contents. These sheets may be used to construct personalized courses of study at the rate of 33 clock hours per quarter credit. (DC)
Introduction

This packet is a listing of all current "Smorgasbord" units used in the Oleanna Math Program. Although masters are supplied on 8½" X 11" stock, copies may be cut to 5" X 8" sheets to meet access and filing needs.

These sheets are easily re-arranged for special needs of the reader, whether he is a student, open classroom teacher, or counselor.

The units described herein may be used as A-projects in "core" courses; when selecting courses, the student should be told to select projects at the rate of 3 hours per credit. (Quarter credit)

These may also be used to construct personalized courses of study at a rate of 33 clock hours = 1 credit.

At the top of each card, a sequence number appears. The first digit (followed by a slash) designates the file section, and are assigned as follows:

0. Introductory notes
1. Mathematical principles treated in the core courses. These modules review principles concisely.
2. Calculating devices
   .1 Elementary slide rules
   .2 Standard slide rules
   .3 Hand calculators
   .4 Abacuses and sorobans
3. Data processing
4. Applications
   .1 Nursing
   .2 Business Administration
   .3 Consumer mathematics
   .4 Science
   .5 Metric System
5. Fun
6. Miscellaneous
7. (Spare)
8. Locally developed modules
9. Local courses developed from Smorgasbord contents

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Beside the control number, you'll see the module's title, author, and his/her parent institution. Entries without author-credits were originated by me. Users are invited to send me items to add to the collection.

Listed below, the prerequisite is given in terms of the "core" courses. Such modules may be taken as soon as the basic course is completed as an A-project.

The time given is drawn largely from the publisher's experience or, failing that, empirically determined from logs of at least five students.

Under "student materials" we have listed all items the student must purchase.

"Other materials" lists items provided by the publisher or available through Oleanna Math Program distribution.

The comment entry suggests passing test scores or curricular utility. 

Smörgåsbord materials were selected on the following criteria:

---Compatibility with the general open-classroom concept of the Oleanna Math Program
---High degree of "portability" i.e. little or no dependence on on-campus equipment for use: largely print presentations
---Apparent production stability and availability of teachers' guides and standardized testing instruments
---Presence of recognized earmarks of quality
---Cost to the institution and student (approximate; at release time)

Most materials listed herein are commercially available; some supplementary material is, as indicated, produced by the module's author.

Walter A. Coole
Open Classroom
Skagit Valley College
Mt. Vernon, WA 98273
Performance objective(s): translate from mathematical formulation in first-degree equations to clear English and vice-versa, problems of considerable difficulty.

Prerequisite: Basic Algebra Time: 9 hours


Performance objective(s): translate from English to mathematical formulation, the following kind of problems which may involve quadratic equations: coin problems, mixtures, investments, interest, motion, work, etc.

Prerequisite: Intermediate Algebra, Time: 20 hours

**Number Pairs**

**Performance objective(s):** perform the following operations on number pairs: naming, adding, forming new sets, subtracting.

**Prerequisite:** Pre-algebra  
**Time:** 10 hours


**Logarithms**

**Performance objective(s):** multiply, divide, raise to a power, and extract roots—using logarithmic calculations.

**Prerequisite:** Basic algebra  
**Time:** 20 hours

**Student materials:** Federal Electric Co. Logarithms. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.00

---

For 5” X 8” format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Performance objective(s): use the algebra of matrices in solving problems in various disciplines in which the student has adequate knowledge of the subject matter.

Prerequisite: Intermediate algebra  
Time: 20 hours

605 Third Ave.  New York, NY  10016  $6.25

Performance objective(s):  compute vector sums, differences, products.

Prerequisite:  Intermediate algebra  
Time: 20 hours

Student materials:  Carman, Robert A.  *A Programmed Introduction to Vectors*.  
John Wiley & Sons.  605 Third Ave.  New York, NY  10016  $5.25
**History of Numerals**

Performance objective(s): represent numbers in Egyptian, Chinese, Japanese, Greek, and Mayan notation.

Oleanna Math Program Smorgasbord

Prerequisite: none

Time: 4 hours

Student materials: Zoll, Edward J. *Systems of Numeration*. Pitman Publishing Co. 6 East 43rd St. New York, NY 10016 $1.95

---

**Uncle Thorbald's Peep Show**

#1--Domain and Range

Performance objective(s): unspecified

Prerequisite: Functions & Relations

Time: 8 hours

Oleanna Math Program Smorgasbord

Student materials: paper and pencil

Other materials: (Filmloop) Schey, Harry M. & Schwartz, Hudah L. *Functions: Domain & Range*. Harper & Row. 2350 Virginia Ave. Hagerstown, MD 21740 $25.00

"Super 8" film loop projector

*Oxford English Dictionary*


Comment: Student is to: (i) view the film, after reading the notes on the package (ii) study carefully articles on 'function', 'domain', and 'range' in the reference works (iii) review the filmloop and (iv) write a brief paper on the concepts involved, dealing with the principles and their applications.

---

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Uncle Thorbald's Peep Show
#2--Inverses

**Performance objective(s):** unspecified

**Oleanna Math Program**

**Prerequisite:** Functions & Relations  **Time:** 8 hours

**Student materials:** paper and pencil.

**Other materials:** (film loop) Schey, Harry M. & Schwartz, Hudah L.

**Functions:** Inverses. Harper & Row. 2350 Virginia Ave. Hagerstown, MD 21740  $25.00

"Super 8" film loop projector

Oxford English Dictionary.


**Comment:** Student is to: (i) view the film, after reading the notes on the package (ii) study carefully articles on 'inverse' in the reference works (iii) review the film loop and (iv) write a brief paper on the concepts involved, dealing with the principles and their applications.

---

Uncle Thorbald's Peep Show
#3--Powers of x

**Performance objective(s):** unspecified

**Oleanna Math Program**

**Prerequisite:** Functions & Relations  **Time:** 8 hours

**Student materials:** paper and pencil.

**Other materials:** (film loop) Schey, Harry M. & Schwartz, Hudah L.

**Functions:** Powers of x. Harper & Row. 2350 Virginia Ave. Hagerstown, MD 21740  $25.00

"Super 8" film loop projector

Oxford English Dictionary.


**Comment:** Student is to: (i) view the film, after reading the notes on the package (ii) study carefully articles on 'exponent' in the reference works (iii) review the film loop and (iv) write a brief paper on the concepts involved, dealing with the principles and their applications.

---

For 5" X 8" format, cut along dotted line. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Oleanna Math Program
Smorgasbord

Performance objective(s): unspecified

Prerequisite: / Periodic functions
Time: 8 hours

Student materials: paper and pencil

Other materials: (Filmloop) Schey, Harry M. & Schwartz, Hudah L.
Hagerstown, MD 21740 $25.00
"Super 8" film loop projector
Oxford English Dictionary.

Comment: Student is to: (i) view the film, after reading the notes on the
package (ii) study carefully articles on 'sine', 'cosine', & 'trigonometric'
in the reference works (iii) review the film loop and (iv) write a brief paper
on the concepts involved, dealing with the principles and their applications.

---

Performance objective(s): unspecified

Prerequisite: Analytic Geometry
Time: 8 hours

Student materials: paper and pencil

Other materials: (Filmloop) Schey, Harry M. & Schwartz, Hudah L.
Functions: The Derivative. Harper & Row. 2350 Virginia Ave. Hagerstown,
MD 21740 $25.00
"Super 8" film loop projector
Oxford English Dictionary.

Comment: Student is to: (i) view the film, after reading the notes on the
package (ii) study carefully articles on 'derivative', 'differ', 'difference'
in the reference works (iii) review the film loop and (iv) write a brief paper
on the concepts involved, dealing with the principles and their applications.

---

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenwood Abstract
& Catalog, published by Coole & Reitan.
1/13

Uncle Thorbald's Peep Show
#6--Maxima and Minima

Performance objective(s): unspecified

Oleanna Math Program
Snoergsbord

Student materials: paper and pencil.

Prerequisite: Analytic Geometry

Other materials: (Film loop) Schey, Harry M. & Schwartz, Hudah L.

Functions: Maxima and Minima. Harper & Row. 2350 Virginia Ave. Hagerstown, MD 21740 $25.00

"Super 8" film loop projector
Oxford English Dictionary.


Comment: Student is to: (i) view the film, after reading the notes on the package (ii) study carefully articles on 'maximum', 'minimum' in the reference works (iii) review the film loop and (iv) write a brief paper on the concepts involved, dealing with the principles and their applications.

1/14

Uncle Thorbald's Peep Show
#7--Points of Inflection

Performance objective(s): unspecified

Oleanna Math Program
Snoergsbord

Student materials: paper and pencil

Prerequisite: Differential Calculus Time: 8 hours

Other materials: (Film loop) Schey, Harry M. & Schwartz, Hudah L.

Functions: Points of Inflection. Harper & Row. 2350 Virginia Ave. Hagerstown Md 21740 $25.00

"Super 8" film loop projector
Oxford English Dictionary.


Comment: Student is to: (i) view the film, after reading the notes on the package (ii) study carefully articles on 'inflect', and 'inflection' in the reference works (iii) review the film loop and (iv) write a brief paper on the concepts involved, dealing with the principles and their applications.
**Uncle Thorbald's Peep Show**

**#8--The Integral**

Performance objective(s): unspecified

Prerequisite: Integral Calculus  
Time: 8 hours

Student materials: paper and pencil

Other materials: (Film loop) Schey, Harry M. & Schwartz, Hudah L.  
Functions: The Integral. Harper & Row. 2350 Virginia Ave. Hagerstown,  
MD 21740 $25.00  
"Super 8" film loop projector

Schey, Harry M. & Schwartz, Hudah L.  
Functions: The Integral. Harper & Row. 2350 Virginia Ave. Hagerstown,  
MD 21740 $25.00  
"Super 8" film loop projector

450 West 33rd St. New York, NY. 10001. $36.50

Comment: Student is to: (i) view the film, after reading the notes on the  
package (ii) study carefully articles on 'integral' and 'integrate' in the  
reference works (iii) review the film loop and (iv) write a brief paper on the  
concepts involved, dealing with the principles and their applications.

**Uncle Thorbald's Peep Show**

**#9--The Fundamental Theorem of Calculus**

Performance objective(s): unspecified

Prerequisite: Integral Calculus  
Time: 8 hours

Student materials: paper and pencil

Other materials: (Film loop) Schey, Harry M. & Schwartz, Hudah L.  
Functions: The Fundamental Theorem of Calculus. Harper & Row. 2350  
Virginia Ave. Hagerstown, MD 21740 $25.00  
"Super 8" film loop projector

Schey, Harry M. & Schwartz, Hudah L.  
Functions: The Fundamental Theorem of Calculus. Harper & Row. 2350  
Virginia Ave. Hagerstown, MD 21740 $25.00  
"Super 8" film loop projector

450 West 33rd St. New York, NY. 10001. $36.50

Comment: Student is to: (i) view the film, after reading the notes on the  
package (ii) study carefully articles on 'calculate', 'calculus' and  
'Fundamental theorem of the integral calculus' in the reference works (iii)  
review the film loop and (iv) write a brief paper on the concepts involved,  
dealing with the principles and their applications.
Uncle Thorbald's Peep Show

#10--The Exponential

Performance objective(s): unspecified

Prerequisite: Integral calculus

Time: 8 hours

Student materials: paper and pencil

Other materials: (Film loop) Schey, Harry M. & Schwartz, Hudah L.

Functions: The Exponential. Harper & Row. 2350 Virginia Ave. Hagerstown, MD 21740 $25.00.

"Super 8" film loop projector

Oxford English Dictionary.


450 West 33rd St. New York, NY 10001. $36.50

Comment: Student is to: (i) view the film, after reading the notes on the package (ii) study carefully articles on 'expone', 'exponent', and 'exponential' in the reference works (iii) review the film loop and (iv) write a brief paper on the concepts involved, dealing with the principles and their applications.
1/18  Quickie Review: Real Numbers

*Performance objective(s):* undefined

**Oleana Math Program**

Prerequisite: Basic Algebra I  Time: 14 hours

*Student materials:* Carico, Charles C. *The Real Number System.* Wadsworth Publishing Co. Belmont, CA 94002  $2.00

*Comment:* Thorough review of the prerequisite course.

1/19  Quickie Review: Algebraic Equations

*Performance objective(s):* undefined

**Oleana Math Program**

Prerequisite: Basic Algebra II  Time: 14 hours

*Student materials:* Carico, Charles C. *Algebraic Expressions.* Wadsworth Publishing Co. Belmont, CA 94002  $2.00

*Comment:* Thorough review of the prerequisite course.
1/20  Quickie Review: Equations & Inequalities

Performance objective(s): undefined

Prerequisite: Intermediate Algebra    Time: 20 hours

Student materials: Carico, Charles C. Equations & Inequalities in One Variable. Wadsworth Publishing Co. Belmont, CA 94002    $2.00

Comment: Thorough review of the prerequisite course.

1/21  Quickie Review: Functions & Relations

Performance objective(s): undefined

Prerequisite: Functions & Relations    Time: 15 hours

Student materials: Carico, Charles C. Functions & Relations. Wadsworth Publishing Co. Belmont, CA 94002    $2.00

Comment: Thorough review of the prerequisite course.
Quickie Review: Exponents & Logarithms

Performance objective(s): undefined

Prerequisite: Functions & Relations  Time: 10 hours

Student materials: Carico, Charles C.  Exponential & Logarithms Functions. Wadsworth Publishing Co. Belmont, CA  94002  $2.00

Comment: Thorough review of the prerequisite course.

---

Quickie Review: Polynomial Functions

Performance objective(s): undefined

Prerequisite: Functions & Relations  Time: 10 hours

Student materials: Carico, Charles C.  Complex Numbers: Polynomial Functions. Wadsworth Publishing Co. Belmont, CA  94002  $2.00

Comment: Thorough review of the prerequisite course.
Quickie Review: Linear Equations & Inequalities

Performance objective(s): undefined

Prerequisite: Functions & Relations  Time: 13 hours

Student materials: Carico, Charles C.  Linear Equations & Inequalities. Wadsworth Publishing Co.  Belmont, CA  94002  $2.00

Comment: Thorough review of the prerequisite course.

---

Quickie Review: Sequences, Series, Probabilities & Statistics

Performance objective(s): undefined

Prerequisite: Functions & Relations; Probability & Statistics  Time: 16 hours


Comment: Thorough review of the prerequisite course.
Performance objective(s):

(i) translate simple sentences from English to one of three logical notational formulations in the sentential calculus,
(ii) use truth tables to decide validity or invalidity of certain inferences and (iii) translate some simple sentences into the notation of the predicate calculus.

Prerequisite: none

Time: 10 hours

Student materials: Scharin, Mortan L. _The Language of Logic_. College Dept.
Random House, Inc. New York, NY 10022 $3.50

Other materials: Coole: Examination for Scharin's Language of Logic.
Performance objective(s): multiplication, division, proportions, ratios, metric conversion, time-speed-distance problems, fractional conversion, simple interest, geometric quantities—to compute these to two significant digits.

Prerequisite: Pre-algebra

Time: 3 hours


Coole: A Self-Instruction Minicourse on the Timesaver Circular Slide Rule.

Other materials: Quiz on the Timesaver Circular Slide Rule (two forms)

Performance objective(s): multiplication, division, squares and square roots—to compute these to two significant digits.

Prerequisite: Basic algebra

Time: 10 hours

Student materials: Slide rule with A, B, C, D scales.


Other materials: Test for Study-Unit: Elementary Straight Slide Rule (two forms)

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Performance objective(s): products, quotients, squares, square roots, cubes, cube roots, logarithms, trigonometric functional values, ratios, proportions, reciprocals—to compute these to three or four significant digits.

Prerequisite: Periodic Functions

Time: 10 hours


Slide rule of minimum 10" and the following scales: A, B, C, D, DL, K, L, S, T

Other materials: Advanced Slide Rule Post-Test

Performance objective(s): perform "fundamental" calculations on the slide rule with accuracy and ease.

Prerequisite: Intermediate Algebra

Time: 30 hours

Student materials: High quality slide rule with the following scales: A, B, C, D, DL, CI, CF, CIF, RL, R², LLL, LL®, L, LLO, LL/0, LL/1, LL/2, LL/3, K, T, S (eg. POST VERSALOG 1460)


Other materials: Hoffman, L.D. & Eliss, H. B.: Tapes to Accompany the Slide Rule, An Audio-Tutorial Program. Merrill Publishing Co. 1300 Alum Creek Rd. Columbus, OH 43612 $380.00

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
2.2/4

Super Slide Rule--
Trigonometry

Performance objective(s): compute trigonometric functional values.

Prerequisite: Periodic Functions
Time: 30 hours

Student materials: high quality slide rule with the following scales: A, B, C, D, DL, DI, DF, DLF, RL, R®, LLL, LL®, L, LLO, LL/0, LL/1, LL/2, LL/3, K, T, S (eg. POST VERSALOG 1460)


Other materials: Hoffman, L.D. & Ellis, H.B.: Tapes to Accompany the Slide Rule, An Audio-Tutorial Program. Merrill Publishing Co. 1300 Alum Creek Rd. Columbus, OH 43612 $380.00

2.2/5

Super Slide Rule--
Calculus I

Performance objective(s): compute transcendental functional values.

Prerequisite: Calculus I
Time: 30 hours

Student materials: High quality slide rule with the following scales: A, B, C, D, DL, CI, DF, CIF, RL, R®, LLL, LL®, L, LLO, LL/0, LL/1, LL/2, LL/3, K, T, S (eg POST VERSALOG 1460)


Other materials: Hoffman, L.D. & Ellis, H.B.: Tapes to Accompany the Slide Rule, An Audio-Tutorial Program. Merrill Publishing Co. 1300 Alum Creek Rd. Columbus, OH 43612 $380.00

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Super Slide Rule--
Calculus II

Performance objective(s): compute transcendental functional values.

Prerequisite: Calculus II Time: 10 hours

Student materials: High quality slide rule with the following scales: A, B, C, D, DL, CI, DF, CIF, RL, R@, LLL, LL@, LL#, L, LLO, LLI, LL/2, LL/3, K, T, S (e.g. POST VERSALOG 1460)


Other materials: Hoffman, L.D. & Ellis, H.B.: Tapes to Accompany The Slide Rule, An Audio-Tutorial Program. Merrill Publishing Co. 1300 Alum Creek Rd. Columbus, OH 43612 $380.00

Pocket Calculators

Performance objective(s): to perform standard mathematical operations, using the SR-10 to considerable extent, with ease.

Prerequisite: Periodic Functions Time: 10 hours

Student materials: paper and pencil (student may purchase any of the materials below)

Other materials: SR-10 Electronic Slide Rule Calculator, Texas Instruments Inc. P.O. Box 5012, Dallas, Texas 75222 $75.00, with users manual


For 8.5" X 11" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Performance objective(s): convert from decimal to binary notation, add, subtract, and multiply binary numbers.

Prerequisite: Basic Algebra I  
Time: 4 hours

Performance objective(s): translate between octal & decimal notation, add, and subtract octal numbers.

Prerequisite: Basic Algebra I  
Time: 4 hours

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Performance objective(s): compute strict logical implications, using truth tables.

Prerequisite: Basic Algebra I

Time: 4 hours

John Wiley & Sons. 605 Third Ave. New York, NY 10016 $4.00
(Chapter 3)

Performance objective(s): construct flow chart representing fairly complex operations

Prerequisite: Basic Algebra I

Time: 4 hours

John Wiley & Sons. 605 Third Ave. New York, NY 10016 $4.00
(Chapter 4)
Performance objective(s): represent numbers in E notation and replicate floating-point calculation

Prerequisite: Basic Algebra II  Time: 4 hours


(Chapter 5)

Performance objective(s): compute interest

Prerequisite: Intermediate Algebra  Time: 3 hours


(Chapter 6)
Performance objective(s): construct sequences, given a general term; decide whether a series diverges, converges, approaches a limit.

Prerequisite: Intermediate Algebra       Time: 3 hours

John Wiley & Sons. 605 Third Ave. New York, NY 10016 $4.00

Performance objective(s): calculate probabilities of dependent & independent events

Prerequisite: Intermediate Algebra       Time: 3 hours

John Wiley & Sons. 605 Third Ave. New York, NY 10016 $4.00

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract Catalog, published by Coole & Reitan.
Computer Mathematics—Statistics

Performance objective(s): compute means, modes, medians, and standard deviations of data-collections

Prerequisite: Intermediate Algebra  Time: 3 hours

John Wiley & Sons.  650 Third Ave.  New York, NY  10016  $4.00
(Chapter 9)

---

Computer Mathematics—Equations

Performance objective(s): solve linear equations in two variables

Prerequisite: Intermediate Algebra  Time: 1 hour

John Wiley & Sons.  605 Third Ave.  New York, NY  10016  $4.00
(Chapter 10)

For 5" x 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Performance objective(s): perform fundamental operations on matrices.

Prerequisite: Intermediate Algebra    Time: 4 hours


(Chapter 11)

Performance objective(s): decide when simple games are "determined" and "fair".

Prerequisite: Intermediate Algebra    Time: 4 hours


(Chapter 12)

For 5" x 3" format, cut along dotted lines. For current updates consult: Greerbook Abstract & Catalog, published by Coole & Reitan.
Introduction to Data Processing--The Data Processing Cycle

Performance objective(s): list the main steps in the data processing cycle; describe what happens at each step of the cycle.

Prerequisite: 3/1-3/12--Computer Mathematics

Time: 2 hours

Student materials: Harris, Martin L. Introduction to Data Processing. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95

(Chapter 1)

Introduction to Data Processing--The Punched Card

Performance objective(s): describe IBM Cards and machine operations

Prerequisite: 3/1-3/12--Computer Mathematics

Time: 4 hours

Student materials: Harris, Martin L. Introduction to Data Processing. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95

(Chapter 2)
3/15  Introduction to Data Processing—Overview of Computers

Performance objective(s): describe how data is organised and processed; and what part humans play in operations

Prerequisite: 3/1-3/12—Computer Mathematics

Time: 3 hours

Student materials: Harris, Martin L. Introduction to Data Processing. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95 (Chapter 3)

3/16  Introduction to Data Processing—Data Storage

Performance objective(s): tell how data is represented in computers

Prerequisite: 3/1-3/12—Computer Mathematics

Time: 4 hours

Student materials: Harris, Martin L. Introduction to Data Processing. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95 (Chapter 4)
Performance objective(s): account, in general terms, how computer programs are developed

Prerequisite: 3/1-3/12--Computer Mathematics

Time: 2 hours

Student materials: Harris, Martin L. *Introduction to Data Processing.* John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95 (Chapter 5)

---

Performance objective(s): draw and interpret simple flow charts

Prerequisite: 3/1-3/12--Computer Mathematics

Time: 6 hours

Student materials: Harris, Martin L. *Introduction to Data Processing.* John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95 (Chapter 6)
3/19 + Introduction to Data Processing—BASIC

Performance objective(s): interpret simple BASIC statements

Prerequisite: 3/1-3/12—Computer Mathematics

Time: 4 hours

Student materials: Harris, Martin L. Introduction to Data Processing. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95 (Chapter 7)

3/20 + Introduction to Data Processing—Software

Performance objective(s): tell what program "software" accomplishes

Prerequisite: 3/1-3/12—Computer Mathematics

Time: 2 hours

Student materials: Harris, Marvin L. Introduction to Data Processing. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95 (Chapter 8)
Performance objective(s): describe system-analysis work in general terms

Prerequisite: 3/1-3/12—Computer Mathematics

Time: 1 hour

Student materials: Harris, Martin L. Introduction to Data Processing. John Wiley & Sons, Inc. 605 Third Ave. New York, NY 10016 $3.95 (Chapter 9)
4.2/1  PERT

Performance objective(s): construct a Program Evaluation and Review Technique chart, accounting for moderately difficult management decision-making.

Prerequisite: Intermediate Algebra  Time: 15 hours


$7.00

4.2/2  Business Mathematics

Performance objective(s): use arithmetic techniques to solve problems in the following areas: income, property, sales taxes, insurance, credit, lending, borrowing, payroll, depreciation merchandising.

Prerequisite: Pre-Algebra  Time: 18 hours


For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Elementary Business Statistics

Performance objective(s): perform elementary statistical information and use it for business purposes.

Oleana Math Program
Smörgåsbord

Prerequisite: Basic Algebra
Time: 14 hours

Student materials: Koosis, Donald J.: Business Statistics.
John Wiley & Sons. Inc. 605 Third Ave. New York, NY 100-6 $2.95

Advanced Business Statistics

Performance objective(s): meet normal upper-division requirements for business statistics.

Oleana Math Program
Smörgåsbord

Prerequisite: Probability & Statistics
Time: 45 hours


For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.

34
Performance objective(s): solve algebraically, problems in macroeconomics.

Prerequisite: Intermediate Algebra  Time: 15 hours

Performance objective(s): "Speak the language" of the metric system; perform most conversions between the English and the metric systems.

Prerequisite: Pre-algebra

Time: 15 hours

For 5" X 8" format, cut along dotted lines. For current updates consult: Greenbook Abstract & Catalog, published by Coole & Reitan.
Performance objective(s): make theoretical predictions about accident-prone days and periodic shifts in morale.

Prerequisite: Basic Algebra

Time: 10 hours

Student materials: Red, blue, and green colored pencils.

Biorythm Cyclegraf. Biorythm Computers, Inc. 298 Fifth Ave. New York, NY 10001 $6.00

Other materials: Coole: Biological Cycles: An Audiotutorial Kit.

Comment: Lesson 1—after reading Cyclegraf materials, plot 6 months' predictions. Lessons 2 and 3 are in the audiotutorial kit.