

Compilation of Notes

Donald Elrod

September 4, 2017

Contents

Contents	2
I Math and Science	5
I Calculus	7
1 Calculus 1	9
2 Calculus 2	11
3 Calculus 3	13
II Physics	15
4 Physics 1	17
5 Physics 2	19

<i>CONTENTS</i>	3
IIIDiscrete Math	21
IVChemistry	23
II Computer Science	25
V Introduction to Program Design	27
VIAdvanced Database Systems and Design	29
IIIElectrical	31
VIDigital Circuit Theory	33
VIIIDigital Circuit Design and Logic	35
IVCoding Languages and Programs	37
IXCoding Languages	39
6 C++	41
7 Java	43
8 SQL - PostegreSQL	45
9 VHDL	47
10 MATLAB	49
11 R	51

12 PHP	53
13 HTML	55
14 CSS	57
15 Python	59
16 Arduino	61
 X Programs	 63
17 SolidWorks	65
18 Quartis Altera	67
19 Multisim	69

Book I

Math and Science

Part I

Calculus 1

Part II

Calculus 2

Part III

Calculus 3

Part IV

Differential Equations

Part V

Physics 1

Part VI

Physics 2

Part VII

Discrete Math

Part VIII

Chemistry

Book II

Computer Science

Part IX

Introduction to Program Design

Part X

Advanced Database Systems
and Design

Book III
Electrical

Part XI

Digital Circuit Theory

Part XII

**Digital Circuit Design and
Logic**

Book IV

Coding Languages

Part XIII

C++

Part XIV

Java

Part XV

SQL - PostgreSQL

Part XVI

VHDL

Part XVII

MATLAB

Part XVIII

R

Part XIX

PHP

Part XX

HTML

Part XXI

CSS

Part XXII

Python

Part XXIII

Arduino

Book V

Programs

Part XXIV

SolidWorks

Part XXV

Quartis Altera

Part XXVI

Multisim

