

HOSTOS COMMUNITY COLLEGE

MAJORS

MICROCOMPUTERS FOR BUSINESS

The objectives of the Microcomputers for Business Program, is to produce a graduate who:

- Is ready to enter the labor force as a junior programmer, Database Administrator Assistant, or as a support person in a Help Desk environment.
- Is able to work independently with little supervision.
- Have strong analytical and critical thinking skills
- Is capable of utilizing business oriented software packages and of programming in various procedural and object oriented microcomputer computer languages.
- Is able to provide computer technical services.

Students in the Microcomputers for Business program will be exposed to the many different computer systems accessible in the computer laboratories and will have the opportunity to use the large variety of computer software available.

Skills acquired will help graduates to seek job opportunities as microcomputer specialists, junior programmers, office systems technicians or other related jobs. Graduates may also pursue a bachelor's degree in Information Systems or Information Management at a four-year institution.

Students who successfully complete the program will receive an Associate in Applied Science (A.A.S.) Degree.

The Unit also offers an ON-LINE Certificate in Business Information Systems program for individuals who wish to upgrade their computer skills. The program seeks to target individuals who:

- Have graduated with college degrees and wish to enter the computer field but do not desire a second degree.
- Are not ready to undertake a full-time, two-year degree but would like to upgrade their computer skill for professional advancement.

The Certificate in Computer Information Systems program is designed to reach people interested in entering the field of Information Systems in such areas as system development, database management, or the technical support area.

In order to reach a broad audience, the program will be offered online. Many of the courses are also offered in the traditional classroom format so students have a choice of learning environments.

Degree Requirements

Computer Information Systems Option

Liberal Arts & Sciences

ENG 110	Expository Writing	3.0
ENG 111	Literature and Composition	3.0
ECO 4643	Microeconomics	OR
ECO 4645	Macroeconomics	3.0
MAT 160	Pre-Calculus	4.0

Electives

Choose seven credits from the following courses:

Natural Sciences

English (above 111)

MAT 210	Calculus I	3.0
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OR

MAT 220	Calculus II	3
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Spanish

French

Italian

Total Electives:		7.0
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Subtotal		20.0
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MAJOR

BUS 100	Introduction to Business	3.0
OT 203	Business Communications	3.0
CIP 101	Intro to Computer System	3.0
CIP 110	Programming Logic & Design	3.0
CIP 112	C++ Programming	3.0
CIP 113	Object Oriented Programming	3.0
CIP 210	System Analysis & Design	3.0
CIP 214	Database Management	3.0
CIP 216	Operating Systems	3.0
CIP 250	Internship	1.0

Subtotal		28.0
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MAJOR ELECTIVES

Choose 12 credits from the following courses:

CIP 120	Adv. Microcomputer Concepts	2.0
CIP 122	Help Desk Support	3.0
CIP 225	Basic Networking Concepts	4.0
CIP 228	Network Operating Systems	4.0
WEB 101	Fundamentals of Web Design	3.0

Subtotal		12.0
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Total Credits for Degree		60.0
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Program of Study Leading to the A.A.S. Degree in Microcomputers for Business

Computer Information Systems Option Recommended Course Sequence

First Year

Semester I

Credits

ENG 110	Expository Writing	3.0
MAT 160	Pre-Calculus	4.0
CIP 101	Intro to Information Systems	3.0
BUS 100	Introduction to Business	3.0
Subtotal		13.0

Semester II

Credits

ENG 111	Literature & Composition	3.0
BIO 110	Principles of Biology	4.0
CIP 110	Programming Logic & Design	3.0
CIP 210	System Analysis & Design	3.0
OT 203	Business Communications	3.0
Subtotal		16.0

Second Year

Semester III	Credits
CIP 112C ++ Programming	3.0
CIP 122Help Desk Support	3.0
CIP 214Database Mgmt Systems	3.0
CIP 216Operating Systems	3.0
ECO 4643Microeconomics	3.0
Subtotal	15.0

Semester IV	Credits
CIP 113Object Oriented Programming	3.0
CIP 120Adv Microcomputer Concepts	2.0
CIP 225Basic Networking Concepts	4.0
CIP 250Internship	1.0
WEB 101Fundamentals of Web Design	3.0
FRE 101Elementary French I	3.0
Subtotal	16.0
Total Credits for Degree	60.0

Degree Requirements

Network Technology Option

Liberal Arts & Sciences

ENG 110Expository Writing	3.0
ENG 111Literature and Composition	3.0
ECO 4643Microeconomics OR	
ECO 4645Macroeconomics	3.0
MAT 160Pre-Calculus	4.0

Electives

Choose seven credits from the following courses:

Natural Sciences
ENGLISH (above 111)
MAT 210 Calculus I OR
MAT 220 Calculus II
Spanish
French
Italian

Total Electives	7.0
Subtotal	20.0

MAJOR

BUS 100Introduction to Business	3.0
OT 203Business Communications	3.0
CIP 101Intro to Computer Systems	3.0
CIP 110Programming Logic & Design	3.0
CIP 120Adv Microcomputer Concepts	2.0
CIP 121Fundamentals of Data Communication	2.0

CIP 225Basic Networking Concepts	4.0
CIP 226Advanced Networking Concepts	4.0
CIP 216Operating Systems	3.0
CIP 227Network Operating Systems	3.0
CIP 250Internship	1.0
Subtotal	31.0

MAJOR ELECTIVES

Choose nine credits from the following courses:

CIP 112C++ Programming	3.0
CIP 113Object Oriented Programming	3.0
CIP 122Help Desk Support	3.0
CIP 210System Analysis & Design	3.0
WEB 101Fundamentals of Web Design	3.0
Total Credits for Degree	60.0

Program of Study Leading to the A.A.S. Degree in Microcomputers for Business Network Technology Option Recommended Course Sequence

First Year

Semester I	Credits
ENG 110Expository Writing	3.0
MAT 160Pre-Calculus	4.0
CIP 101Intro to Computer Systems	3.0
BUS 100Introduction to Business	3.0
ECO 4643Micro Economics	3.0
Subtotal	16.0

Semester II	Credits
ENG 111Literature & Composition	3.0
OT 203Business Communications	3.0
CIP 110Programming Logic & Design	3.0
CIP 120Adv Microcomputer Concepts	2.0
BIO 110Principles of Biology	4.0
Subtotal	15.0

Second Year

Semester III	Credits
CIP 121Fundamentals of Data Communication	2.0
CIP 122Help Desk Support	3.0
CIP 225Basic Networking Concepts	4.0
CIP 216Operating Systems	3.0
FRE 101Elementary French I	3.0
Subtotal	15.0

Semester IV	Credits
CIP 210System Analysis & Design	3.0
CIP 226Advanced Networking Concepts	4.0
CIP 227Network Operating Systems	3.0
CIP 250Internship	1.0

WEB 101	Introduction to WEB Design	. . . . .3.0
Subtotal		.14.0
Any nine (9) credits may be taken from a combination of the following courses not already taken:		
CIP 214; CIP 122; CIP 226; CIP 228; CIP 210		. . . . .9.0
PED	Personal Physical Fitness	. . . . .1.0
Subtotal		.10

Semester V		Credits
CIP 250	Internship	. . . . .6.0
Subtotal		.6.0
Total Credits for Degree		.60.0

Program of Study Leading to a Certificate in Business Information Systems

BUS 100	Introduction to Business	. . . . .3.0
CIP 101	Intro To Information Systems	. . . . .3.0
CIP 110	Programming Logic & Design	. . . . .3.0
CIP 112	C Programming	. . . . .3.0
CIP 210	System Analysis & Design	. . . . .3.0
CIP 214	Database Mgmt Systems	. . . . .3.0
CIP 216	Operating Systems	. . . . .3.0
Total		.21.0