PVCC ACADEMIC CERTIFICATE PROGRAMS, ASSOCIATE IN APPLIED SCIENCES DEGREES & CERTIFICATES OF COMPLETION

ACADEMIC CERTIFICATE PROGRAMS

- Aesthetic Applications, AC
- Aesthetic Fundamentals, AC
- Fine & Performing Arts Basics, AC
- Fine & Performing Arts Principles, AC
- International Studies: Asia, AC
- International Studies: Latin America, AC

ASSOCIATE IN APPLIED SCIENCES DEGREES

- Administration of Justice, AAS
- Administrative Office Professional, AAS
- Advanced Emergency Medical Technology (Paramedic), AAS
- Audio Production Technologies, AAS
- Computer Information Systems, AAS
- Dietetic Technology, AAS
- Early Childhood Education, AAS
- Emergency Management, AAS
- Fire Science, AAS
- Fire Science Technology, AAS
- General Business, AAS
- Microsoft Applications Development, AAS
- Microsoft Networking Technology, AAS
- Music Business, AAS
- Nursing, AAS
- Programming & System Analysis, AAS
- Retail Management, AAS
- Strength, Nutrition & Personal Training, AAS

CERTIFICATES OF COMPLETION

- Accounting Specialized Paraprofessional, CCL
- Administrative Office Professional, CCL
- Advanced Emergency Medical Technology (Paramedic), CCL
- Audio Production Technologies, CCL

- Basic Emergency Medical Technology, CCL
- Basic Firefighter, CCL
- Computer Information Systems, CCL
- Computer Networking Technology, CCL
- Computer Systems Maintenance, CCL
- Customer Service Information Professional, CCL
- Early Childhood Education, CCL
- Emergency Management, CCL
- Fire Science, CCL
- General Business, CCL
- Import/Export Trade, CCL
- International Business, CCL
- Journalism, CCL
- Linux Professional, CCL
- Media Arts: Computer Art Illustrator, CCL
- Microcomputer Accounting, CCL
- Microsoft Applications Development, CCL
- Microsoft Desktop Support Technology, CCL
- Microsoft Office Specialist, CCL
- Microsoft Product Specialist, CCL
- Microsoft Systems Administration, CCL
- Microsoft Systems Engineer, CCL
- Middle Management, CCL
- Music Business, CCL
- Nurse Assisting, CCL
- Organizational Leadership, CCL
- Practical Nursing, CCL
- Programming & System Analysis, CCL
- Retail Management, CCL
- Strength & Conditioning Personal Training, CCL
- Teaching Healing Meditation & Stress Management, CCL
- Web Design, CCL
- Web Developer, CCL

PVCC DEGREE & CERTIFICATE PROGRAMS - LISTED BY CATEGOR

ACCOUNTING

- Accounting Specialized Paraprofessional, CCL
- Microcomputer Accounting, CCL

Administration of Justice

• Administration of Justice, AAS

Administrative Office Professional

- Administrative Office Professional, AAS, CCL
- Customer Service Information Professional, CCL
- Microsoft Office Specialist, CCL

ART / COMPUTER RELATED

• Media Arts: Computer Art Illustrator, CCL

BUSINESS RELATED

- General Business, AAS, CCL
- Middle Management, CCL
- Retail Management, AAS, CCL

Computer Related

- Computer Information Systems, AAS, CCL
- Computer Networking Technology, CCL
- Computer Systems Maintenance, CCL
- Linux Professional, CCL
- Microsoft Applications Development, AAS, CCL
- Microsoft Desktop Support Technology, CCL
- Microsoft Networking Technology, AAS
- Microsoft Office Specialist, CCL
- Microsoft Product Specialist, CCL
- Microsoft Systems Administration, CCL
- Microsoft Systems Engineer, CCL
- Programming & System Analysis, AAS, CCL
- Web Design, CCL
- Web Developer, CCL

EARLY CHILDHOOL EDUCATION

• Early Childhood Education, AAS, CCL

EMERGENCY MEDICAL TECHNOLOGY

- Advanced Emergency Medical Technology (Paramedic), AAS, CCL
- Basic Emergency Medical Technology, CCL
- Emergency Management, AAS, CCL

FINE & PERFORMING ARTS

- Aesthetic Applications, AC
- Aesthetic Fundamentals, AC
- Fine & Performing Arts Basics, AC
- Fine & Performing Arts Principles, AC

FIRE SCIENCE TECHNOLOGY

- Basic Firefighter, CCL
- Fire Science, AAS, CCL
- Fire Science Technology, AAS

International Business & Studies

- Import/Export Trade, CCL
- International Business, CCL
- International Studies: Asia, AC
- International Studies: Latin America, AC

JOURNALISM

• Journalism, CCL

MICROSOFT RELATED

- Microsoft Applications Development, AAS, CCL
- Microsoft Desktop Support Technology, CCL
- Microsoft Networking Technology, AAS
- Microsoft Office Specialist, CCL
- Microsoft Product Specialist, CCL
- Microsoft Systems Administration, CCL
- Microsoft Systems Engineer, CCL

Music / Commercial

- Audio Production Technologies, AAS, CCL
- Music Business, AAS, CCL

Nursing

- Nurse Assisting, CCL
- Nursing, AAS
- Practical Nursing, CCL

NUTRITION

• Dietetic Technology, AAS

WELLNESS

- Strength & Conditioning Personal Training, AAS, CCL
- Teaching Healing Meditation & Stress Management, CCL

ACADEMIC CERTIFICATES

The Maricopa Community College District Academic Certificate is a defined and coherent program of study that is recommended for students who wish to gain additional expertise in an academic area. While this program of study can result in proficiency in specified skills and competencies, as well as mastery of knowledge, it is not designed to prepare someone for employment in a specific occupation.

Academic Certificates:

- * require a cumulative GPA of 2.0 or better for completion.
- * follow the graduation policies within the general catalog.
- * Fine & Performing Arts Academic Certificates are unique to Paradise Valley Community College.

For more information regarding Paradise Valley Community College's Fine & Performing Arts Academic Certificates, please contact Dr. Lois Roma-Deeley at (602) 787-6577 or Academic Advising at (602) 787-7060.

The Academic Certificates in Fine & Performing Arts Basics and Aesthetics Fundamentals are to be completed before the other Academic Certificates.

FINE & PERFORMING ARTS

Academic Certificate: 6201

AESTHETIC APPLICATIONS

16-18 credits

DESCRIPTION: The Academic Certificate in Aesthetic Applications is not designed to prepare students for employment in specific occupations. The Academic Certificate in Aesthetic Applications is designed to provide students with a foundation in the key concepts of aesthetics for the purpose of enhancing students' individual artistic endeavors. This certificate is designed for students who are planning an avocation in the Fine & Performing Arts (theatre, creative writing, visual arts, music, dance, and cinema).

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Academic Core and the Academic Specialization areas. "+" indicates prerequisite. "++" indicates any module. Courses used to complete requirements for one Fine & Performing Arts Academic Certificate may not be used to fulfill requirements for another Fine & Performing Arts Academic Certificate (with the exception of ENG210 which may be repeated for credit).

PROGRAM PREREQUISITE: Successful completion of Fine & Performing Arts Basics Academic Certificate and the Aesthetics Fundamentals Academic Certificate.

ACADEMIC CORE: Credits: 9

Students must complete a total of 9 credits from the following list of courses (no more than 3 credits from a single discipline as indicated by prefix).

Visual Arts Discipline:

AKH 101	Prenistoric Inrough Gothic Arts (3) OK
ARH 102	Renaissance Through Contemporary Art (3) OR
+ ART 113	Color (3) OR
+ ART 132	Photography II (3) OR
+ ART 162	Ceramics II (3) OR

Dance Discipline:

DAN 131	Ballet I (1) AND
DAN 132	Modern Dance I (1) AND
DAN 133	Modern Jazz Dance I (1) OR
DAN 210	Dance Production (3) OR

Creative Writing Discipline:

+ ENG 210 Creative Writing (3) OR (Note: ENG102 is required prerequisite to ENG210)

Humanities Discipline:

+ HUM 250 Ideas & Values in the Humanities (3) OR (Note: ENG101 is required prerequisite to HUM251)

Music Discipline:

MHL 143 Music in World Cultures (3) OR

Theatre Discipline:

+ THE 220 Modern Drama (3) OR

Academic Spec	ialization:	Credits:	6
ARH 109 + ARH 115 ARH 201 ARH 217 ART 100 ART/ADA 1 + ART 116 ART 131 + ART 261	History of American Art History of Photography Art of Asia Mexican Art History Intro to Computer Graphic Art 15 Three-Dimensional Design Life Drawing I Introduction to Photography Ceramics III		3 3 3 1 3 3 3 3
COM 110 + COM 225 + COM 241	Interpersonal Communication Public Speaking Performance of Literature		3 3 3
+ DAH 201 + DAN 134 + DAN 135 + DAN 136 + DAN 231 + DAN 232 + DAN 233 + DAN 265	World Dance Perspectives Ballet II Modern Dance II Modern Jazz Dance II Ballet III Modern Dance III Modern Dance III Dance Choreography II		3 1 1 1 1 1 1 3
+ ENG 200 + ENG 211 + ENG 213 ENG 235 ENG 260 ENH 204 ENH 285 + ENH 289	Reading & Writing About Literature Screenwriting Introduction to the Study of Languages Magazine Article Writing Film Analysis Intro to Contemporary Literature Contemporary Women Writers Literature from Nobel Laureates		3 3 3 3 3 3 3
HUM 211AE	Introduction to Business Folklore of the Southwest Women and Films A Foreign Films: Classics B Foreign Films: Japanese D Foreign Film: Third World Documentary Film Hispanic Film		3 3 3 3 3 3 3

	HUM 260	Intercultural Perspectives	3
	HUM 261	Asian Ideas and Values	3
	MGT 253	Owning and Operating a Small Business	3
	MKT 271	Principles of Marketing	3
	MHL 143	Music in World Cultures	3
	MHL 145	American Jazz and Popular Music	3
	MHL 146	Survey of Broadway Musicals	3
	MHL 153	Rock Music and Culture	3
+	MTC 240	Composition	3
	MUC 109	Music Business: Merchandising & Law	3
	MUP 150	Community Chorus	1
	MUP 159	Community Orchestra	1
	MUP 160	Orchestra	2
	MUP 161	Community Band	1
	MUP 162	Band	2
	MUP 163	Jazz Ensemble	1
	MUP 181	Chamber Music Ensembles	1
	MUP 182	Chamber Singers	1
	PHI 101	Introduction to Philosophy	3
	THE 118	Playwriting	3
	THP 115	Theatre Makeup (3) OR	
	THP 201AA	Theatre Production I (1) AND	
	THP 201AB	Theatre Production II (2)	
	THP 213	Introduction to Technical Theatre	3
	THP 243	Interpreters Theatre	3
	THP 271	Voice and Diction	3

RESTRICTED ELECTIVES:

Credits: 1-3

Students may select and complete 1-3 credits from any of the following prefixes or, with prior approval from the program director or designee, 1-3 credits may be substituted from the Academic Specialization area.

BPC++++	Any BPC course (1-3) OR	1-3
CIS+++++	Any CIS course (1-3) OR	
CPD+++++	Any CPD course (1-3) OR	
CWE++++	Any CWE course (1-3) OR	

Fine & Performing Arts
Academic Certificate: 6202

AESTHETIC FUNDAMENTALS

16-18 credits

DESCRIPTION: The Academic Certificate in Aesthetic Fundamentals is not designed to prepare students for employment in specific occupations. The Academic Certificate in Aesthetic Fundamentals is designed to provide students with a variety of enriched cultural experiences beneficial to students' individual artistic endeavors. This certificate will provide students with an overview of the influence of aesthetics in one or more disciplines in the Fine & Performing Arts (theatre, creative writing, visual arts, music, dance, and cinema).

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Academic Core and the Academic Specialization areas. "+" indicates prerequisite. "++" indicates any module. Courses used to complete requirements for one Fine & Performing Arts or Aesthetics Academic Certificate may not be used to fulfill requirements for another Fine & Performing Arts or Aesthetics Academic Certificate.

PROGRAM PREREQUISITES: None

ACADEMIC CORE:

Credits: 15

Students must complete a total of 9 credits from the following list of courses. No more than 3 credits from a single discipline as indicated by prefix.

Visual Arts Discipline:

Credits: 9

- + ART111 Drawing I (3) OR
- + ART112 Two-Dimensional Design (3) OR
- + ADA112 Two-Dimensional Design (3) OR

Dance Discipline:

DAH100 Introduction to Dance (3) OR

DAN131 Ballet I (1) AND

DAN132 Modern Dance I (1) AND

DAN133 Modern Jazz Dance I (1) OR

Creative Writing Discipline:

+ ENG217 Personal & Exploratory Writing (3) OR

Cinema Discipline:

HUM210 Contemporary Cinema (3) OR THE210 Contemporary Cinema (3) OR

Music Discipline:

MTC103 Introduction to Aural Perception (2) AND

MUP150 Community Chorus (1) OR MUP159 Community Orchestra (1) OR

MUP161 Community Band (1) OR MUP163 Jazz Ensemble (1) OR

MUP181 Chamber Music Ensembles (1) OR

MUP182 Chamber Singers (1) OR

Theatre Discipline:

THE111 Modern Drama (3) OR

THP112 Acting I (3) OR

+ THP212 Acting II (3)

Students must	select 6 credits from the following list of A Consult with program director or designee	
ARH109 + ARH115 ARH201 ARH217	History of American Art History of Photography Art of Asia Mexican Art History	3 3 3 3
ART100 ART/ADA1 + ART116 ART131 + ART261	Introduction to Computer Graphic Art 15 Three-Dimensional Design Life Drawing I Introduction to Photography Ceramics III	1 3 3 3 3
COM110 + COM225 + COM241	Interpersonal Communication Public Speaking Performance of Literature	3 3 3
+ DAH201 + DAN134 + DAN135 + DAN136 + DAN231 + DAN232 + DAN233 + DAN265	World Dance Perspectives Ballet II Modern Dance II Modern Jazz Dance II Ballet III Modern Dance III Modern Jazz Dance III Dance Choreography II	3 1 1 1 1 1 1 3
+ ENG200 + ENG211 + ENG213 ENG235 ENG260	Reading and Writing About Literature Screenwriting Introduction to the Study of Languages Magazine Article Writing Film Analysis	3 3 3 3 3
ENH204 ENH285 + ENH289	Introduction to Contemporary Literature Contemporary Women Writers Literature from Nobel Laureates	3 3 3
GBS151	Introduction to Business	3
HUM211AE	Folklore of the Southwest Women and Films A Foreign Films: Classics B Foreign Films: Japanese D Foreign Film: Third World Documentary Film Hispanic Film Intercultural Perspectives Asian Ideas and Values	3 3 3 3 3 3 3 3 3
MGT253	Owning and Operating a Small Business	3
MKT271	Principles of Marketing	3
MHL143 MHL145 MHL146 MHL153	Music in World Cultures American Jazz and Popular Music Survey of Broadway Musicals Rock Music and Culture	3 3 3 3
+ MTC240	Composition	3

MUC109	MUC109 Music Business: Merchandising & Law		3
MUP150	——————————————————————————————————————		1
MUP159	Community Orchestra		1
MUP160	Orchestra		2
MUP161	Community Band		1
MUP162	Band		2
MUP163	Jazz Ensemble		1
MUP181	Chamber Music Ensembles		1
MUP182	Chamber Singers		1
PHI101	Introduction to Philosophy		3
THE118	Playwriting		3
THP115	Theatre Makeup (3) OR		
THP201AA	Theatre Production I (1) AND		
THP201AB	Theatre Production II (2)		3
THP213	Introduction to Technical Theatre		3
THP243	Interpreters Theatre		3
THP271	Voice and Diction		3
RESTRICTED	ELECTIVES:	Credits:	1-3
BPC++++	Note: Any BPC course (1-3) OR		
CIS+++++	Note: Any CIS course (1-3) OR		
CPD+++++	Note: Any CPD course) (1-3) OR		
CWE+++++	Note: Any CWE course) (1-3)		
		_	
	Fine & Performing Arts		

Fine & Performing Arts
Academic Certificate: 6203

FINE & PERFORMING ARTS BASICS 16-19 credits

DESCRIPTION: The Academic Certificate in Fine & Performing Arts Basics is not designed to prepare students for employment in specific occupations. The Academic Certificate in Fine & Performing Arts Basics is designed to teach students basic principles and techniques of fine and performing arts.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Academic Core and the Academic Specialization areas. "+" indicates prerequisite. "++" indicates any module. Courses used to complete requirements for one Fine & Performing Arts Academic Certificate may not be used to fulfill requirements for another Fine & Performing Arts Academic Certificate (with the exception of ENG210 which may be repeated for credit).

PROGRAM PREREQUISITES: None.

ACADEMIC CORE: Credits: 9-10 Students must complete a total of 9-10 credits from the following list of courses (no more than 3-4 credits from a single discipline as indicated by prefix).

Visual Arts Discipline:

ART 111 Drawing I (3) OR ART 131 Photography I (3) OR ART 161 Ceramics I (3) OR

Dance Discipl	ine:		HUM 211A.	A Foreign Films: Classics	3
DAH 100	Introduction to Dance (3) OR			B Foreign Films: Japanese	3
DAN 131	Ballet I (1) AND			D Foreign Film: Third World	3
DAN 132	Modern Dance I (1) AND		HUM 212	Documentary Film	3
DAN 133	Modern Jazz Dance I (1) OR		HUM 213	Hispanic Film	3
D/11 (133	Wodern Jazz Dance I (1) OK		HUM 260	Intercultural Perspectives	3
Creative Writi	ng Discipline:		HUM 261	Asian Ideas and Values	3
+ ENG 210	Creative Writing (3) OR		HUM 201	Asian ideas and values	3
C: D::	-1!		MGT 253	Owning and Operating a Small Business	3
Cinema Discip			MKT 271	Principles of Marketing	3
HUM 205	Introduction to Cinema (3) OR				2
THE 205	Introduction to Cinema (3) OR		MHL 143	Music in World Cultures	3
Music Discipl	ine:		MHL 145	American Jazz and Popular Music	3
MTC 101	Introduction to Music Theory (3) OR		MHL 146	Survey of Broadway Musicals	3
MTC 105	Music Theory I (3) AND		MHL 153	Rock Music and Culture	3
MTC 106	Aural Perception I (1) OR		+ MTC 240	Composition	3
WITC 100	Aurai reiception I (1) OK		MUC 109	Music Business: Merchandising & Law	3
Theatre Discip	oline:		MUP 150	Community Chorus	1
THE 111	Introduction to Theatre (3) OR		MUP 159	Community Orchestra	1
THP 112	Acting I (3) OR		MUP 160	Orchestra	2
	8 () -		MUP 161	Community Band	1
ACADEMIC	SPECIALIZATION:	Credits: 6	MUP 162	Band	2
	select 6 credits from the following list of				
	. (Note: Consult with program director or de		MUP 163	Jazz Ensemble	1
		esignee for	MUP 181	Chamber Music Ensembles	1
other related c	ourse options.)		MUP 182	Chamber Singers	1
ARH 109	History of American Art	3	PHI 101	Introduction to Philosophy	3
+ ARH 115	History of Photography	3		* *	
ARH 201	Art of Asia	3	THE 118	Playwriting	3
ARH 217	Mexican Art History	3	THP 115	Theatre Makeup (3) OR	
ART 100	Introduction to Computer Graphic Art	1	THP 201AA	Theatre Production I (1) AND
			THP 201AB	Theatre Productio	n II (2)
	115 Three-Dimensional Design	3	THP 213	Introduction to Technical Theatre	3
+ ART 116	Life Drawing I	3	THP 243	Interpreters Theatre	3
ART 131	Introduction to Photography	3	THP 271	Voice and Diction	3
+ ART 261	Ceramics III	3	1111 271	voice and Dietron	
COM 110	Interpersonal Communication	3	RESTRICTED	DELECTIVES: Credi	ts: 1-3
+ COM 225	Public Speaking	3		select and complete 1-3 credits from any of the	
+ COM 241	Performance of Literature	3		select and complete 1-3 credits from any of the	TOHOW-
1 COM 241		3	ing prefixes:		
+ DAH 201	World Dance Perspectives	3	BPC++++	Any BPC course (1-3) OR	
+ DAN 134	Ballet II	1		Any CIS course (1-3) OR	
+ DAN 135	Modern Dance II	1		Any CPD course (1-3) OR	
+ DAN 136	Modern Jazz Dance II	1		- Any CWE course (1-3) OR	
+ DAN 231	Ballet III	1			
+ DAN 232	Modern Dance III	1			
+ DAN 233	Modern Jazz Dance III	1	-		
+ DAN 265	Dance Choreography II	3			
+ DAI\ 203	Dance Choleography II	3			
+ ENG 200	Reading and Writing About Literature	3			
+ ENG 211	Screenwriting	3			
+ ENG 213	Introduction to the Study of Languages	3			
ENG 235	Magazine Article Writing	3			
ENG 260	Film Analysis	3			
ENH 204	Introduction to Contemporary Literature	3			
ENH 285	Contemporary Women Writers	3			
+ ENH 289	Literature from Nobel Laureates	3			
	Enerature from Nobel Laureates	3			
GBS 151	Introduction to Business	3			
HUM 110	Folklore of the Southwest	3			
HUM 209	Women and Films	3			
			T.		

Fine & Performing Arts	ARH 217 Mexican Art History
Academic Certificate: 6204	ART 100 Introduction to Computer Graphic Art
	ART/ADA 115 Three-Dimensional Design
FINE & PERFORMING ARTS	ART 116 Life Drawing I ART 131 Introduction to Photography
PRINCIPLES	ART 151 Introduction to Photography ART 261 Ceramics III
16-18 credits	
	COM 110 Interpersonal Communication + COM 225 Public Speaking
DESCRIPTION: The Academic Certificate in Fine & Performing	+ COM 241 Performance of Literature
Arts Principles is not designed to prepare students for employment in specific occupations. The Academic Certificate in Fine & Performing	
Arts Principles is designed to provide students with an opportunity	+ DAH 201 World Dance Perspectives + DAN 134 Ballet II
to examine components of various artistic principles which, in turn,	+ DAN 135 Modern Dance II
will enhance students' individual artistic endeavors in the Fine &	+ DAN 136 Modern Jazz Dance II
Performing Arts (theatre, creative writing, visual arts, music, dance,	+ DAN 231 Ballet III
and cinema).	+ DAN 232 Modern Dance III
PROGRAM NOTES: Students must earn a grade of "C" or better in	+ DAN 233 Modern Jazz Dance III + DAN 265 Dance Choreography II
each course in the Academic Core and the Academic Specialization	
areas. "+" indicates prerequisite. "++" indicates any module. Courses used to complete requirements for one Fine & Performing	+ ENG 200 Reading and Writing About Literature + ENG 211 Screenwriting
Arts Academic Certificate may not be used to fulfill requirements for	+ ENG 211 Screenwriting + ENG 213 Introduction to the Study of Languages
another Fine & Performing Arts Academic Certificate.	ENG 235 Magazine Article Writing
PROGRAM PREREQUISITE: Successful completion of Fine &	ENG 260 Film Analysis
Performing Arts Basics Academic Certificate and the Aesthetics	ENH 204 Introduction to Contemporary Literature
Fundamentals Academic Certificate.	ENH 285 Contemporary Women Writers
	+ ENH 289 Literature from Nobel Laureates
ACADEMIC CORE: Credits: 9	GBS 151 Introduction to Business
Students must complete a total of 9 credits from the following list of courses (no more than 3 credits from a single discipline as indicated	HUM 110 Folklore of the Southwest
by prefix).	HUM 209 Women and Films
Visual Arts Discipline:	HUM 211AA Foreign Films: Classics HUM 211AB Foreign Films: Japanese
ARH 101 Prehistoric Through Gothic Art (3) OR	HUM 211AD Foreign Film: Third World
ARH 102 Renaissance Through Contemporary Art (3) OR	HUM 212 Documentary Film
ART 165 Watercolor Painting I (3) OR	HUM 213 Hispanic Film
ART 167 Painting I (3) OR	HUM 260 Intercultural Perspectives
Dance Discipline:	HUM 261 Asian Ideas and Values
DAN 264 Dance Choreography I (3) OR	MGT 253 Owning and Operating a Small Business
Creative Writing Discipline:	MKT 271 Principles of Marketing
ENG 205 Nature of Poetry (3) OR	MHL 143 Music in World Cultures
Humanities Discipline:	MHL 145 American Jazz and Popular Music
+ HUM 251 Ideas and Values in the Humanities (3) OR (Note: ENG101 required as prerequisite to HUM251.)	MHL 146 Survey of Broadway Musicals MHL 153 Rock Music and Culture
	MHL 153 Rock Music and Culture + MTC 240 Composition
Music Discipline:	MUC 109 Music Business: Merchandising & Law
MHL 140 Survey of Music History (3) OR	MUP 150 Community Chorus
Theatre Discipline:	MUP 159 Community Orchestra
THE 211 Creative Drama (3) OR	MUP 160 Orchestra
ACADEMIC SPECIALIZATION: Credits: 6	MUP 161 Community Band MUP 162 Band
Students must select 6 credits from the following list of Academic	MUP 163 Jazz Ensemble
Specialization courses with a minimum of 3 credits from the listed	MUP 181 Chamber Music Ensembles
COM, GBS, MGT or MKT prefixes. (Note: Consult with program	MUP 182 Chamber Singers
director or designee for other related course options.)	PHI 101 Introduction to Philosophy
ARH 109 History of American Art 3	THE 118 Playwriting
+ ARH 115 History of Photography 3 ARH 201 Art of Asia 3	—y g
ANTI 201 AIT ULASIA 3	

International Studies Academic Certificate Programs

THP 115	Theatre Makeup (3) OR	
THP 201AA	Theatre Production I (1) AND	
THP 201AB	Theatre Production II (2)	
THP 213	Introduction to Technical Theatre	3
THP 243	Interpreters Theatre	3
THP 271	Voice and Diction	3

RESTRICTED ELECTIVES:

DDOOD AM DDEDEOLUCIEEC

Credits: 1-3

Students may select and complete 1-3 credits from any of the following prefixes or, with prior approval from the program director or designee, 1-3 credits may be substituted from the Academic Specialization area.

BPC+++++ Any BPC course (1-3) OR CIS+++++ Any CIS course (1-3) OR CPD+++++ Any CPD course (1-3) OR CWE++++ Any CWE course (1-3) OR

ACADEMIC CERTIFICATE: 6210

INTERNATIONAL STUDIES: ASIA 41 credits

DESCRIPTION: The Academic Certificate in International Studies: Asia is designed to provide 1) a foundation in general education courses relevant to international studies; 2) a specialization in international education for teaching faculty; 3) a foundation in Asian studies courses for people in government agencies or in local businesses and industries with international interests in Asia; and 4) a wide offering of Asian studies courses for more meaningful experiences for international travelers.

	PREREQUISITES: First Year Composition	Credits: 3
ACADEMIC Note: Student	CORE: s must complete the following courses	Credits: 15
Humanities as	nd Fine Arts:	Credits: 6
+ HUM250	Ideas and Values in the Humanities—to the Renaissance	3
History/Philosophy/Religion:		

REL243 World Religions (3) 3 Social & Behavioral Sciences: Credits: 9

World Religions (3) OR

World Religions (3) OR

Anthropology:

HIS243

PHI243

ASB102 Intro. to Cultural and Social Anthropology 3

Geography:

GCU121 World Regional Geography Eastern Hemisphere World Regional Geography Western Hemisphere GCU122

ACADEMIC SPECIALIZATION:

Credits: 20

Note: Students must select and complete a total of 20 credits from the following list of courses with no more than 6 credits from a single discipline as indicated by prefix. Students may select a maximum of 10 language credits from either CHI or a maximum of 10 language credits from JPN.

Anthropology:

ASB222 Buried Cities and Lost Tribes: Old World (3)

Art History:

ARH118 Introduction to Chinese Art (3)

ARH201 Art of Asia (3)

Chinese:

Note: Students may select a maximum of 10 credits from the following CHI courses listed.

CHI	credits may not be combined with JPN credits.)
CHI101	Elementary Chinese (Mandarin) I (5)
+ CHI102	Elementary Chinese (Mandarin) II (5)
+ CHI201	Intermediate Chinese I (5)
CITIOOO	I (Cl : II (5)

+ CHI202 Intermediate Chinese II (5)

History:

HIS113 History of Eastern Civilizations to 1850 (3)

HIS114 History of Eastern Civilizations 1850 to Present (3)

History of the Far East to 1900 (3) HIS271

HIS272 History of the Far East 1900 to Present (3)

HIS273 US Experience in Viet Nam (3)

Humanities:

HUM211AA Foreign Films: Classics (3) HUM211AB Foreign Films: Japanese (3) HUM261 Asian Ideas and Values (3)

Japanese:

Note: Students may select a maximum of 10 credits from the following JPN courses.

JPN credits may not be combined with CHI credits.) JPN101

Elementary Japanese I (5) Elementary Japanese II (5) + JPN102 + JPN201 Intermediate Japanese I (5) + JPN202 Intermediate Japanese II (5)

Philosophy:

PHI245 Introduction to Eastern Philosophy (3)

Religion:

REL202 Classics of Asian Religions (3)

RESTRICTED ELECTIVES:

Credits: 6

Note: Students must select and complete 6 credits from any of the following prefixes or, with prior approval from the program director or designee, 6 credits may be substituted from the Academic Specialization area.

Anthropology

ASB211 Women in Other Cultures (3) ASB214 Magic, Witchcraft, and Healing:

An Introduction to Comparative Religion (3)

Nature of Language (3) **ASB276**

ASM104 Introduction to Biological Anthropology (4)

International Studies Academic Certificate Programs

Art History:

ARH101 Pre-historic through Gothic Art (3)

ARH102 Renaissance through Contemporary Art (3)

Communication:

COM263 Intercultural Communication (3)

Economics:

ECN212 The World Economy (3) ECN250 World Economic Systems (3)

English Humanities:

ENH201 World Literature through the Renaissance (3) ENH202 World Literature after the Renaissance (3)

Geography:

GCU102 Introduction to Human Geography (3) GPH111 Introduction to Physical Geography (4)

History:

HIS110 World History to 1500 (3)

HIS111 World History 1500 to the Present (3)

Humanities:

HUM205 Introduction to Cinema (3) HUM211AD Foreign Films: Third World (3)

+ HUM251 Ideas and Values in the Humanities—Renaissance

to the Modern Era (3)

Music Humanities & Literature:

MHL143 Music in World Cultures (3)

Philosophy:

PHI104 World Philosophy (3)

Political Science:

POS120 World Politics (3)

POS125 Issues in World Politics (3) Comparative Government (3) POS140

POS180 United Nations Studies (3)

Psychology:

PSY132 Psychology and Culture (3)

Sociology:

SOC101 Introduction to Sociology (3)

+ SOC250 Comparative Human Institutions (3) Academic Certificate: 6211

INTERNATIONAL STUDIES: LATIN AMERICA

41 credits

DESCRIPTION: The Academic Certificate in International Studies: Latin America is designed to provide 1) a foundation in general education courses relevant to international studies; 2) a specialization in international education for teaching faculty; 3) a foundation in Latin American studies courses for people in government agencies or in local businesses and industries with international interests in Latin America; and 4) a wide offering of Latin American studies courses for more meaningful experiences for international travelers.

PROGRAM PREREQUISITES: Credits: 3 + ENG101 First Year Composition 3

ACADEMIC CORE: Credits: 15

Note: Students must complete the following courses

Humanities and Fine Arts: Credits: 6

Humanities:

+ HUM250 Ideas and Values in the Humanities -3

to the Renaissance

History/Philosophy/Religion:

World Religions (3) OR HIS243 PHI243 World Religions (3) OR REL243 World Religions (3)

Social & Behavioral Sciences:

Anthropology:

ASB102 3 Intro. to Cultural and Social Anthropology

Geography:

GCU121 World Regional Geography Eastern Hemisphere 3

GCU122 World Regional Geography Western Hemisphere 3

ACADEMIC SPECIALIZATION: Credits: 20

Note: Students must select and complete a total of 20 credits from the following list of courses with no more than 6 credits from a single discipline as indicated by prefix. Students may select a maximum of 10 language credits from either POR or a maximum of 10 language credits from SPA.

Anthropology:

ASB 223 Buried Cities and Lost Tribes: New World (3)

Art History:

ARH 216 Pre-Columbian Art (3) ARH 217 Mexican Art History (3)

History:

HIS 145 History of Mexico (3)

HIS 241 Latin American Civilization in Colonial Period (3) HIS 242 Latin American Civ. in Post-Colonial Period (3)

Humanities:

HUM211AA Foreign Films: Classics (3)

Hispanic Film (3) HUM213

HUM281 Hispanic Ideas and Values (3) 3

Credits: 9

Portuguese:

Note: Students may select a maximum of 10 credits from the following POR courses listed. POR credits cannot be combined with SPA credits.

POR101 Elementary Portuguese I (5)
POR102 Elementary Portuguese II (5)
POR201 Intermediate Portuguese II (5)
POR202 Intermediate Portuguese II (5)

Sociology:

SOC243 Sociology of Contemporary Mexican Society (3)

Spanish:

Note: Students may select a maximum of 10 credits from the following SPA courses listed. SPA credits cannot be combined with POR credits.

SPA101 Elementary Spanish I (4) + SPA102 Elementary Spanish II (4) + SPA201 Intermediate Spanish I (4) + SPA202 Intermediate Spanish II (4)

Spanish Humanities:

SPH150 Peninsular Spanish Literature in Translation (3) SPH151 Latin American Literature in Translation (3)

RESTRICTED ELECTIVES:

Credits: 6

Note: Students must select and complete 6 credits from any of the following prefixes or, with prior approval from the program director or designee, 6 credits may be substituted from the Academic Specialization area.

Anthropology:

ASB211 Women in Other Cultures (3)
ASB214 Magic, Witchcraft, and Healing:

An Intro. to Comparative Religion (3)

ASB276 Nature of Language (3)

ASM104 Introduction to Biological Anthropology (4)

Art History:

ARH101 Prehistoric through Gothic Art (3)

ARH102 Renaissance through Contemporary Art (3)

Communication:

COM263 Intercultural Communication (3)

Economics:

ECN212 The World Economy (3) ECN250 World Economic Systems (3)

English Humanities:

ENH201 World Literature through the Renaissance (3) ENH202 World Literature after the Renaissance (3)

Geography:

GCU102 Introduction to Human Geography (3) GPH111 Introduction to Physical Geography (4)

History:

HIS110 World History to 1500 (3)

HIS111 World History 1500 to the Present (3)

Humanities:

HUM205 Introduction to Cinema (3)

HUM251 Ideas and Values in the Humanities—

Renaissance to the Modern era (3)

Music Humanities & Literature:

MHL143 Music in World Cultures (3)

Philosophy:

PHI104 World Philosophy (3)

Political Science:

POS120 World Politics (3)
POS125 Issues in World Politics (3)
POS140 Comparative Government (3)
POS180 United Nations Studies (3)

Psychology:

PSY132 Psychology and Culture (3)

Religion:

REL201 Classics of Western Religions (3)

Sociology:

SOC101 Introduction to Sociology (3)

+ SOC250 Comparative Human Institutions (3)

ACCOUNTING

CERTIFICATE OF COMPLETION: 5156

ACCOUNTING SPECIALIZED PARA-PROFESSIONAL PROGRAM

35-37 credits

DESCRIPTION: program prepares the student for entry into the accounting field as an accounting clerk, or a junior accountant who performs a variety of routine calculating and verification tasks; summarizes and posts data in designated books; performs a variety of other duties such as making invoices or monthly statements, preparing payrolls, verifying bank accounts, keeping record files, making periodic reports of business activities, and listing and checking details as instructed. He or she may devise, install and supervise the operation of general accounting, budget, and cost systems either manually or by computer. Computer application skills are important.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite. "++" indicates any module.

Credits: 35-37

REQUIRED COURSES:

	ACC 111	Accounting Principles I	3
+	ACC 112	Accounting Principles II	3
+	ACC 115	Computerized Accounting	2
+	ACC 212	Managerial Accounting	3
+	ACC 219	Intermediate Accounting I	3
+	ACC 221	Tax Accounting	3
+	ACC 222	Payroll Accounting	3

	BPC 117DM	Microsoft Access: DB Management (3) OR	
	BPC 117AM	DB Mgt: Microsoft Access Level I (1) AN	D
	BPC 117BM	DB Mgt: Microsoft Access Level II (1) AN	1D
	BPC 117CM	DB Mgt: Microsoft Access Level III (1)	3
	BPC 110	Computer Usage and Applications (3) OR	
	CIS 105	Survey of Comp. Information Systems (3)	3
	GBS 151	Introduction to Business	3
+	GBS 233	Business Communication	3
+	MAT 120	Intermediate Algebra (5) OR	
+	MAT 122	Intermediate Algebra (3) OR	
	Satisfactory con	mpletion of a higher level math course.	3-5

CERTIFICATE OF COMPLETION: 5175

MICROCOMPUTER ACCOUNTING

35-37 credits

DESCRIPTION: The Certificate of Completion in Microcomputer Accounting will provide graduates with a background in accounting and microcomputer-oriented data processing courses. The program will train people for accounting occupations requiring sophisticated use of the microcomputer as a tool.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite. "++" indicates any module.

REQUIRED COURSES: Credits:	35-37
----------------------------	-------

	A CC 111	A D 1 T	2
	ACC 111	Accounting Principles I	3
+	ACC 112	Accounting Principles II	3
+	ACC 115	Computerized Accounting	2
+	ACC 212	Managerial Accounting	3
+	ACC 222	Payroll Accounting	3
	BPC 117++	Micro-Database Management (any module	e) 3
	BPC 110	Computer Usage and Applications (3) OR	
	CIS 105	Survey of Computer Information Systems	(3)3
	CIS 133DA	Internet/Web Development Level I	3
+	CIS 159	Visual Basic Programming I (3) OR	
+	CIS 162AC	Visual C++: Level I (3) OR	
+	CIS 163AA	Java Programming: Level I (3)	3
	GBS 151	Introduction to Business	3
+	GBS 233	Business Communication	3
+	MAT 120	Intermediate Algebra (5) OR	
+	MAT 122	Intermediate Algebra (3) OR	
	Satisfactory com	appletion of a higher level math course.	3-5

ADMINISTRATION OF JUSTICE

ASSOCIATE OF APPLED SCIENCE: 3057 ADMINISTRATION OF JUSTICE 64-69 credits

DESCRIPTION: The Administration of Justice curriculum is interdisciplinary in nature and provides the student, including practitioners, with a broad based knowledge of the criminal justice field. It prepares the student/practitioner for Administration of Justice careers in, but not limited to: law enforcement, security, evidence technology, adult and juvenile corrections/detentions, probation/parole, victim advocacy and social services/community based agencies/organizations.

PROGRAM NOTES: "++" indicates any module.

ADMISSION CRITERIA: None

PROGRAM PREREQUISITES: None

REQUIRED COURSES: Credits: 30

Students must earn a grade of "C" or better in each course in the Required Courses area.

AJS101	Introduction to Criminal Justice	3	
AJS109	Substantive Criminal Law	3	
AJS200	Current Issues in Criminal Justice	3	
AJS205	Criminal Justice Report Writing	3	
AJS212	Juvenile Justice Procedures	3	
AJS225	Criminology	3	
AJS230	The Police Function	3	
AJS240	The Correction Function	3	
AJS258	Victimology and Crisis Management	3	
AJS260	Procedural Criminal Law	3	
RESTRICTED	ELECTIVES: Credits: 9-12		
AJS++++	Any AJS prefix courses not listed under		
	Required Courses area	6	
HES201	Substance Abuse and Behavior	3	
CWE198++	Any CWE Career/Work Experience		
	(any suffixed course)	1-3	
GENERAL ED	OUCATION REQUIREMENTS: Credits: 25-27		
CORE: Credits	s: 15-17		
First-Year Com	position	6	
	ed General Education course in the		
	omposition Area		
Oral Communi	cation	3	
Any approve	ed General Education course in the		
Oral Communication Area			
Critical Readin	g	3	
	0	_	

Any approved General Education course in the

Critical Reading Area or equivalent as indicated by assessment

Mathematics		3-5
Any approv	ved General Education course from the	
Mathematic	es Area or equivalent as indicated by assessment	
DISTRIBUTI	ON: Credits: 10	
Humanities an	nd Fine Arts	3
Any approv	ved General Education course in the	
Humanities	and Fine Arts Area	
except AJS	123 if taken as a Restricted Elective	
Social and Be	havioral Sciences	3
PSY101	Introduction to Psychology (3) OR	
SOC101	Introduction to Sociology (3) OR	
SOC140	Racial & Ethnic Minorities (3)	
Natural Scien	ces	4
Any approv	ved General Education course from the	
Natural Sci	ences Area	

ADMINISTRATIVE OFFICE **PROFESSIONAL**

DESCRIPTION: The Associate in Applied Science in Administrative Office Professional, a two-year career program, is designed to prepare students for positions as administrative assistants and executive secretaries.

Students who have completed courses in the skill areas prior to enrollment in the program may begin at a more advanced level in typing and word processing may substitute business electives after consulting with an advisor in the Administrative Office Professional.

Students currently employed should consult with an advisor about the advantages of Cooperative Education work programs.

The Certificate of Completion in Administrative Office Professional is composed of three semesters of course work, with emphasis on microcomputer operations using a variety of applications, and learning to function as a professional in the office of today.

CERTIFICATE OF COMPLETION: 5234

ADMINISTRATIVE OFFICE PROFESSIONAL

40-42 CREDITS

DESCRIPTION: The Certificate of Completion in Administrative Office Professional is composed of three semesters of course work, with emphasis on computer and functioning as an administrative office professional.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite. "++" indicates any module. Overall GPA requirement: 2.0

3

REQUIRED COURSES: Credits: 32 BPC114AE Excel: Level I (1) AND + BPC114BE Excel: Level II (1) AND + BPC114CE Excel: Level III (1) OR + BPC114DE Excel Spreadsheet (3)

	BPC117AM	DBase Mgt: Microsoft Access Level I (1) AND	
+	BPC117BM	DBase Mgt: MS Access Level II (1) AND	
+	BPC117CM	DBase Mgt: MS Access Level III (1) OR	
+	BPC117DM	Microsoft Access: DBase Management (3)	3
+	BPC118AB	Powerpoint: Level I (1) AND	
+	BPC118BB	Powerpoint: Level II (1) AND	
+	BPC118CB	Powerpoint: Level III (1) OR	
+	BPC118DB	Desktop Presentation: Powerpoint (3)	3
+	BPC135DK	Word: Level I	2
+	BPC235DK	Word: Level II	3
	GBS131	Business Calculations	3
	GBS233	Business Communication	3
	OAS101	Computer Type I: Keyboarding/Format	3
+	OAS102	Computer Type II: Document Production	
	OAS108	Business English	3
	OAS125	Introduction to the Professional Office	3

RESTRICTED ELECTIVES: Credits: 8 Select a minimum of 8 credits from the following courses in consultation with a department advisor. ACC107 Bookkeeping Theory and Practice (4) OR

ACC111	Accounting Principles I (3)	3-4
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Info. Systems (3)	3
BPC125	Microcomputer Setup and Maintenance	1
BPC/CIS13	3AA Internet/Web Development Level I (1)	AND
+ BPC/CIS13	3BA Internet/Web Development Level II (1)	AND

+ BPC/CIS133CA Internet/Web Development Level III (1) OR + BPC/CIS133DA Internet/Web Development Level I (3) CIS109AM Networking Technology I (2) OR

Introduction to Local Area Networks (3) CIS190 2-3 + CIS233++ Internet/Web (any module) (1) OR + CIS233DA Internet/Web Development Level II (3) 1 - 3

GBS151 Introduction to Business IBS101 Introduction to International Business **Business Organization and Management** MGT175 Human Relations in Business MGT251 10-key By Touch + OAS118 Typing III: Adv. Document Production + OAS201

3

3

3

3

1

3

OAS296++ Cooperative Education (1-3) OR CWE198++ Career/Work Experience (1-3) 1 - 3

ASSOCIATE IN APPLIED SCIENCE: 3238

ADMINISTRATIVE OFFICE **PROFESSIONAL**

61-64 CREDITS

DESCRIPTION: The Associate in Applied Science in Administrative Office Professional, a two-year career program, is designed to prepare students for positions as administrative assistants and executive secretaries. Students who have completed courses in the skill areas prior to enrollment in the program may begin at a more advanced

level and may substitute credit hours from restricted electives after consulting with an advisor. Students currently employed should consult with an advisor about the advantages of Cooperative Education work programs.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates preprequisite. "++" indicates any module.

+	EQUIRED CONTROL CONTRO	Windows Operating System: Level I Excel: Level I (1) AND	Credits: 29
+	BPC114DE	Excel Spreadsheet (3)	3
+	BPC117BM BPC117CM	DBase Mgt: Microsoft Access Level I (1) DBase Mgt: Microsoft Access Level II (1) DBase Mgt: MS Access Level III (1) OR Microsoft Access: DBase Mgt: (3))AND
+	BPC118AB BPC118BB BPC118CB BPC118DB	Powerpoint: Level I (1) AND Powerpoint: Level II (1) AND Powerpoint: Level III (1) OR Desktop Presentation: Powerpoint (3)	3
+	BPC135DK		2
	BPC235DK	Word: Level II	2
	GBS233 OAS101	Business Communication Computer Type I: Keyboarding/Format	3 3
+	OAS102	Computer Type II: Document Production	3
	OAS108 OAS125	Business English Introduction to the Professional Office	3 3
_			_
R	ESTRICTED ACC107	ELECTIVES: Bookkeeping Theory and Practice (4) OR	Credits: 8
	ACC111	Accounting Principles I (3)	3-4
	BPC110 CIS105	Computer Usage and Applications (3) OF Survey of Computer Info. Systems (3)	3
	BPC125	Microcomputer Setup and Maintenance	1
+	BPC/CIS133 BPC/CIS133	AA Internet/Web Development Level I (BA Internet/Web Development Level II (CA Internet/Web Development Level I (DA Internet/Web Internet/Web Development Level I (DA Internet/Web In	(1) AND III (1) OR
	CIS109AM CIS190	Networking Technology I (2) OR Introduction to Local Area Networks (3)	2-3
	CIS233++ CIS233DA	Internet/Web (any module) (1) OR Internet/Web Development Level II (3)	1-3
	GBS151	Introduction to Business	3
	IBS101	Introduction to International Business	3
	MGT175	Business Organization and Management	3
+	MGT251 OAS118	Human Relations in Business 10-key By Touch	3 1
	OAS201	Typing III: Advanced Document Product	ion 3

OAS296++ Cooperative Education (1-3) OR CWE198++ Career/Work Experience (1-3)	1-3
GENERAL EDUCATION REQUIREMENTS	Credits: 24-27
CORE:	Credits: 15-17
First Year Composition + Any approved general education course in the First-Year Composition area.	6
Oral Communication + Any approved general education course in the Oral Communication area.	3
Critical Reading + Any approved general education course in the Critical Reading area.	3
Mathematics + Any approved general education course in the Ma	3-5 athematics area.
DISTRIBUTION:	Credits: 9-10
Humanities & Fine Arts Any approved general education course in the Humanities & Fine Arts area.	2-3
Social & Behavioral Sciences Any approved general education course in the Social & Behavioral Sciences area. (recommend)	3 PSY101)
Natural Sciences Any approved general education course in Natura	4 Al Sciences area.

CERTIFICATE OF COMPLETION: 5236 CUSTOMER SERVICE / INFORMATION

PROFESSIONAL
35-37 CREDITS

DESCRIPTION: This program provides a sound background in computer applications as well as customer service. The program will prepare students for front-line employment in fields such as customer service representative, account specialist or information analyst.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite. "++" indicates any module.

REQUIRED C	OURSES: Credits: 28
+ BPC114AE	Excel: Level I (1) AND
+ BPC114BE	Excel: Level II (1) AND
+ BPC114CE	Excel: Level III (1) OR
+ BPC114DE	Excel Spreadsheet (3)
BPC117AM	DB Managemt: MS Access-Level I (1) AND
+ BPC117BM	DB Managemt: MS Access-Level II (1) AND
+ BPC117CM	DB Managemt: MS Access - Level III (1) OR
+ BPC117DM	Microsoft Access: Database Management (3)
+ BPC118AB	Powerpoint: Level I
+ BPC135DK	Word: Level I
CIS121AE	Windows Operating System: Level I

3

3

2

	GBS131 GBS233	Business Calculations Business Communication Customer Service Skills and Strategies	3 3 3
	MGT126 MGT251	Human Relations in Business	3
	OAS101	Computer Type I: Keyboarding/Format	3
	OAS101	Business English	3
ъ.		-	٥
K.		ELECTIVES: Credits: 7	
	ACC111	Bookkeeping Theory and Practice (4) OR	3-4
	ACC111	Accounting Principles I (3)	
		Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM	1 1
		Intro to Microcomputers II. IBM	1
+	BECIUICA	fill to wherecomputers III. IBW	1
	BPC110	Computer Usage & Applications (3) OR	
	CIS105	Survey of Computer Info. Systems (3)	3
+	BPC125	Microcomputer Setup & Maintenance	1
	RPC133AA	Internet/Web Developmt Level I (1) AND	
+		Internet/Web Developmt Level II (1) AND	
		Internet/Web Developmt Level III (1) OR	
		Internet/Web Development Level I (3)	3
		*	
+	BPC21/AM	Advanced MS Access: Database Mgt	3
	CIS109AM	<i>E E</i> , <i>()</i>	
	CIS190	Introduction to Local Area Networks (3)	2-3
+	CIS233++	Internet/Web Dev/Publishing	
		(Note: any module) (1) OR	
+	CIS233DA	Internet/Web Development Level II (3)	1-3
	GBS151	Introduction to Business	3
	IBS101	Introduction to International Business	3
	MGT175	Business Organization and Management	3
	MGT229	Management and Leadership I	3
	MKT101	Introduction to Public Relations	3
	MKT271	Principles of Marketing	3
+	OAS118	10-key By Touch	1
	OAS296++	Coop. Education (any module) (1-3) OR	
	CWE198++	-	1-3

CERTIFICATE OF COMPLETION: 5222

MICROSOFT OFFICE SPECIALIST

23 CREDITS

DESCRIPTION: The Microsoft Office Specialist certificate program seeks to prepare individuals to assume productive positions in the dramatically expanding field of office computer support. Integrated concepts of modern office systems are included in the program.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite.

REQUIRED C	OURSES: Credits	: 17
	1AE Windows Operating System: Level I	1
	Excel: Level I (1) AND	
	Excel: Level II (1) AND	
	Excel: Level III (1) OR	
BPC114DE	Excel Spreadsheet (3)	3
BPC117AM	DBase Mgt: Microsoft Access Level I (1) AND	
+ BPC117BM	DBase Mgt: Microsoft Access Level II (1)AND)
	DBase Mgt: Microsoft Access Level III (1) OR	
BPC117DM	Microsoft Access: Database Management (3)	3
+ BPC118AB	Powerpoint: Level I (1) AND	
+ BPC118BB	Powerpoint: Level II (1) AND	_
+ BPC118CB	Powerpoint: Level III (1) OR	-
BPC118DB	Desktop Presentation: Powerpoint (3)	3
+ BPC135DK	Word: Level I	2
+ BPC235DK	Word: Level II	2
OAS101	Computer Type I: Keyboarding/Format	3
RESTRICTED	ELECTIVES: Credi	ts: 6
	DELECTIVES: Credi	ts: 6
Select a minim		ts: 6
Select a minim BPC101AA	num of 6 credits from the following:	
Select a minim BPC101AA BPC101BA	num of 6 credits from the following: Intro to Microcomputers I: IBM	1
Select a minim BPC101AA BPC101BA BPC101CA	lum of 6 credits from the following: Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM	1
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH	Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM Intro to Microcomputers IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1 1 1
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH	lum of 6 credits from the following: Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II	1 1 1 0.5
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH BPC110	Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II Computer Usage and Applications (3) OR	1 1 1 0.5 0.5
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH	lum of 6 credits from the following: Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II	1 1 1 0.5
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH BPC110 CIS105 + BPC217AM	Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II Computer Usage and Applications (3) OR Survey of Computer Information Systems (3) Adv. Microsoft Access: DBase Management	1 1 1 0.5 0.5
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH BPC110 CIS105 + BPC217AM BPC224	Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II Computer Usage and Applications (3) OR Survey of Computer Information Systems (3) Adv. Microsoft Access: DBase Management Project Management MS Project/Windows	1 1 1 0.5 0.5
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH BPC110 CIS105 + BPC217AM BPC224 + OAS102	Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II Computer Usage and Applications (3) OR Survey of Computer Information Systems (3) Adv. Microsoft Access: DBase Management Project Management MS Project/Windows Computer Type II: Document Production	1 1 1 0.5 0.5 3 3 3 3
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH BPC110 CIS105 + BPC217AM BPC224	Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II Computer Usage and Applications (3) OR Survey of Computer Information Systems (3) Adv. Microsoft Access: DBase Management Project Management MS Project/Windows	1 1 1 0.5 0.5
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH BPC110 CIS105 + BPC217AM BPC224 + OAS102 + OAS201	Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II Computer Usage and Applications (3) OR Survey of Computer Information Systems (3) Adv. Microsoft Access: DBase Management Project Management MS Project/Windows Computer Type II: Document Production	1 1 1 0.5 0.5 3 3 3 3
Select a minim BPC101AA BPC101BA BPC101CA BPC106AH BPC106BH BPC110 CIS105 + BPC217AM BPC224 + OAS102 + OAS296++	Intro to Microcomputers I: IBM Intro to Microcomputers II: IBM Intro to Microcomputers II: IBM Intro to Microcomputers III: IBM MS Outlook: Level I MS Outlook: Level II Computer Usage and Applications (3) OR Survey of Computer Information Systems (3) Adv. Microsoft Access: DBase Management Project Management MS Project/Windows Computer Type II: Document Production Computer Type III: Adv. Doc. Production	1 1 1 0.5 0.5 3 3 3 3

AUDIO PRODUCTION TECHNOLOGIES

CERTIFICATE OF COMPLETION: 5334

Audio Production Technologies 37-38 credits

DESCRIPTION: The CCL (Certification of Completion) in Audio Production Technologies certificate and degree program offers students an opportunity to receive training on industry-standard equipment by instructors with real-world experience and professional resumes. Students learn the concepts and theory associated with recording arts technologies while applying them in lab settings appropriate to their skill levels. Students completing the Audio Production program will gain the knowledge base, competency, and confidence they need to enter the commercial music marketplace.

PROGRAM REQUIREMENTS: Note: + indicates course has prerequisites and/or corequisites. Note: Students must earn a grade of "C" or better in all courses within the program.

PROGRAM PREREQUISITES: None

DECLUBED COURSES

R	EQUIRED CO	OURSES: Credit	s: 3	37-38
	MTC101	Introduction to Music Theory (3) OR		
	MTC103	Introduction to Aural Perception (2)		2-3
	MTC180	Computer Literacy for Musicians (3) OR		
+	MUC295	Studio Music Recording III (3)		3
	MTC191	Electronic Music I		3
+	MTC192	Electronic Music II		3
	MUC109	Music Business: Merchandising and the La	W	3
	MUC110	Music Business: Recording and Mass Medi	a	3
+	MUC111	Digital Audio Workstation I (DAW I)		3
+	MUC112	Digital Audio Workstation II (DAW II)		3
	MUC195	Studio Music Recording I		3
+	MUC196	Studio Music Recording II		3
	MUC197	Live Sound Reinforcement I		3
+	MUC198	Live Sound Reinforcement II		3
+	MUC297AB	Music Internship		2

ASSOCIATE OF APPLIED SCIENCE: 3024

AUDIO PRODUCTION TECHNOLOGIES 65 CREDITS

DESCRIPTION: The AAS (Associate in Applied Science) in Audio Production Technologies certificate and degree program offers students an opportunity to receive training on industry-standard equipment by instructors with real-world experience and professional resumes. Students learn the concepts and theory associated with recording arts technologies while applying them in lab settings appropriate to their skill levels. Students completing the degree in Audio Production Technologies will gain the knowledge base, competency, and confidence they need to enter the commercial music marketplace.

PROGRAM REQUIREMENTS: Note: + indicates course has prerequisites and/or corequisites. Note: Students must earn a grade of "C" or better in all courses within the program.

REQUIRED CO		Credits:	37-38
MTC101 MTC103 MTC180	Introduction to Music Theory (3) OR Introduction to Aural Perception (2) Computer Literacy for Musicians (3) (OR	2-3
+ MUC295	Studio Music Recording III (3)		3
MTC191 + MTC192	Electronic Music I Electronic Music II		3 3
MUC109	Music Business: Merchandising and the		3
MUC110 + MUC111	Music Business: Recording and Mass Digital Audio Workstation I (DAW I)	Media	3 3
+ MUC111	Digital Audio Workstation II (DAW I))	3
MUC195	Studio Music Recording I	,	3
+ MUC196 MUC197	Studio Music Recording II Live Sound Reinforcement I		3 3
+ MUC198	Live Sound Reinforcement I		3
+ MUC297AB	Music Internship		2
GENERAL ED	UCATION REQUIREMENTS:	Cred	lits: 28
CORE		Cred	lits: 15
First-Year Com			6
	d general education course in the imposition Area		
Oral Communic	cation		3
	d general education course in the		
Oral Commu	nication Area		
Critical Reading		O.D.	3
+ CRE101 (Note: Equiva	Critical and Evaluative Reading I (3) (alent as indicated by assessment)	ЭR	
Mathematics			3
Any approve	d general education course in Mathema	atics Are	ea
DISTRIBUTIO	N	Cred	lits: 13
Humanities & F			6
	d general education course in the nd Fine Arts Area		
	.140 or MHL145 or MHL153 recomm	ended)	
	avioral Sciences		3
	d general education course in the ehavioral Sciences Area		
Natural Science	es		4
	d general education course in the		
Natural Scien	nces Area		

COMPUTER INFORMATION SYSTEMS

PROGRAM: Associate in Applied Science (AAS) in Computer Information Systems. Certificates of Completion are also offered in: Computer Information Systems, Computer Networking Technology and Computer Systems Maintenance.

JOB DESCRIPTIONS: This degree can lead to a promising career as a systems analyst, network engineer, database administrator, computer consultant, programmer, or systems administrator. Industry, government, not-for-profit organizations, and consulting firms hire graduates for these computer fields.

JOB OPPORTUNITIES: Information technology jobs are on the increase. Businesses are in need of qualified staff to support and use computer systems. The average annual salary of graduates with a four year degree responding to a recent survey was \$43,353. Some of the corporations employing graduates are Microage, Dept. of Economic Security, American Express, Intel, Honeywell Inc., and Motorola.

CERTIFICATE OF COMPLETION: 5865

COMPUTER INFORMATION SYSTEMS

23 CREDITS

DESCRIPTION: This certificate is designed to prepare students for various entry-level positions in computer systems. Career opportunities include Network Administrator, Computer Programmer, Computer Operator, Web Publisher, Help Desk Technician, Database Administrator and Systems Analyst.

PROGRAM NOTES: Students must earn a grade of "C" or better in all Required Courses. "+" indicates prerequisite. "++" indicates any module.

PROGRAM PI	REREQUISITES:	Credits: 3
+ ENG 101	First Year Composition (3) OR	
+ ENG107	First Year Composition for ESL (3) OR	
Permission of	of Division	

RI	EQUIRED C	OURSES:	Credits:	23
	ACC111	Accounting Principles I		3
	BPC125	Microcomp. Set Up & Maintenance		1
	BPC/CIS117	DM Microsoft Access: DB Managemen	t	3
	BPC/CIS121	AE Windows Operating System: Level	I	1
	BPC/CIS224	Project Management MS Project for W	indows	3
	CIS105	Survey Computer Information Systems		3
+	CIS150	Programming Fundamentals		3
+	CIS 190	Introduction to Local Area Networks (3	OR	
	MST 140	Microsoft Networking Essentials (3)		3
+	GBS 233	Business Communication		3

Associate in Applied Science: 3786

COMPUTER INFORMATION SYSTEMS

63-66 CREDITS

DESCRIPTION: The AAS Computer Information Systems degree program is designed to prepare students for various entry-level positions in computer systems. Career opportunities include Network Administrator, Computer Programmer, Computer Operator, Web Publisher, Help Desk Technician, Database Administrator, and Systems Analyst.

R	EQUIRED CO		Credits:	
	ACC111	Accounting Principles I		3
	BPC125	Microcomputer Set Up and Maintenance	e	1
	BPC/CIS117	DM Microsoft Access: Database Mgt ((3) OR	
	BPC/CIS117	AM Database Mgt: MS Access Level I	(1) AND	
	BPC/CIS117	AM Database Mgt: MS Access Level II	(1) ANI)
	BPC/CIS117	AM Database Mgt: MS Access Level II	$\Pi(1)$	3
	BPC/CIS121	AE Windows Operating System: Level 1	I	1
	CIS105	Survey Computer Information Systems		3
+	CIS150	Programming Fundamentals		3
+	CIS190	Introduction to Local Area Networks (3)) OR	
	MST140	Microsoft Networking Essentials (3)		3
	DDG/GIGGO	D : MOD : C W	1	2
	BPC/CIS224	Project Management MS Project for Wi	ndows	3
+	GBS233	Business Communication		3

RESTRICTED ELECTIVES: Credits: 15-16

Students must choose one of the following specialized areas: Computer Systems Maintenance, Networking, Programming, Web Development, or Information Technology, and successfully complete all courses designated in that area.

C	omputer Syst	tems Maintenance: Credits:	15
+	BPC170	Microcomputer Maintenance I	3
	CIS102	Interpersonal & Customer Service Skills	1
		for IT Professionals	
	CIS/BPC121	AB Microsoft Command Line Operations	1
	CIS126AL	Linux Operating System I	1
+	CIS270	Essentials/Network & Information Security	3
	MST150++	Microsoft Windows Professional (any module)	3
	CWE198AC	Career/Work Experience (3) OR	
+	CIS296WC	Cooperative Education (3) OR	
		Special Projects (3)	
C	omputer Net	working: Credits:	16
	MST150++	Microsoft Windows Professional (any module)	3
+	MST152++	Microsoft Windows Server (any module)	4
_	MST155	Implementing Windows Network Infrastructure	3
-	CIS270	Essentials/Network & Information Security	3
+	C13270	Essentials/Network & Information Security	3
	Students must of CIS240 MST244	choose and successfully complete one of the following: Local Area Network Planning and Design (3) Microsoft SQL Server Administration (3)	3

CWE198AC Career/Work Experience (3) OR + CIS296WC Cooperative Education (3) OR + CIS298AC Special Projects (3)	Critical Reading + CRE101
Programming: Credits: 15 + CIS225++ Business Systems Analysis and Design 3 Students must choose and successfully complete one of the following course sequences to complete this specialized area: + CIS151 Computer Game Development: Level I (3) AND	Mathematics + MAT120 Intermediate Algebra (5) OR + MAT121 Intermediate Algebra (4) OR + MAT122 Intermediate Algebra (3) OR Satisfaction of a higher-level Mathematics course
+ CIS251 Computer Game Development: Level II (3) 6	DISTRIBUTION Credits: 10
+ CIS159 Visual Basic Programming I (3) AND + CIS259 Visual Basic Programming II (3) 6	Humanities and Fine Arts Any approved general education course from the Humanities and Fine Arts area.
+ CIS162AC Visual C++: Level I (3) AND + CIS262AC Visual C++: Level II (3) 6	Social and Behavioral Sciences ECN111 Macroeconomic Principles (3) OR
+ CIS162AD C#: Level I (3) AND + CIS262AD C#: Level II (3) 6	ECN112 Microeconomic Principles (3) 3
+ CIS163AA Java Programming I (3) AND + CIS263AA Java Programming II (3) 6	Natural Sciences 4 Any approved general education course from the Natural Sciences area.
Web Development: Credits: 15 CIS/BPC120DF Microcomp Graphics: Adobe Photoshop (3) OR CIS/BPC120AF Comp Graphics: Adobe Photoshop Lev I (1) AND + CIS/BPC120BF Comp Graph: Adobe Photoshop Lev II (1) AND + CIS/BPC120CF Comp Graph: Adobe Photoshop Lev III (1) 3	CERTIFICATE OF COMPLETION: 5869 COMPUTER NETWORKING TECHNOLOGY
CIS/BPC133DA Internet/Web Development Level I 3 + CIS233DA Internet/Web Development Level II 3 + CIS234 XML Application Development 3 Students must choose and successfully complete one of the following courses to complete this specialized area: CIS120DC Computer Graphics: Macromedia Flash (3) OR + CIS235 e-Commerce (3) OR + CIS166++ Web Scripting (any module) (3) OR	DESCRIPTION: This certificate will equip students with marketable skills associated with managing and maintaining computer networks. This certificate can help prepare students for the professional certification as a Microsoft Certified Product Specialist. PROGRAM NOTES: Students must earn a grade of "C" or better in the program. "+" indicates course has prerequisite and/or coreq.
CWE198AC Career/Work Experience (3) OR + CIS296WC Cooperative Education (3) OR	REQUIRED COURSES: Credits: 17
+ CIS298AC Special Projects (3) 3 Information Technology: Credits: 15 Students must complete a combination of 15 credits from any of the specialized areas listed above: Computer Systems Maintenance, Networking, Programming, and Web Design.	CIS105 Survey of Computer Information Systems 3 CIS/BPC121AB Microsoft Command Line Operations 1 + CIS270 Essentials of Network and Information Security 3 + CIS190 Introduction to Local Area Networks (3) OR MST140 Microsoft Networking Essentials (3) 3
GENERAL EDUCATION REQUIREMENTS: Credits: 25-27	MST150++ Microsoft Windows Professions (any module) 3
CORE Credits: 15-17	+ MST152++ Microsoft Windows Professions (any module) 4
First-Year Composition + ENG101 First-Year Composition (3) AND + ENG102 First-Year Composition (3) OR + ENG107 First-Year Composition for ESL (3) AND + ENG108 First-Year Composition for ESL (3) 6 Oral Communication 3	

Any approved general education course from the

Oral Communication area.

CERTIFICATE OF COMPLETION: 5867 COMPUTER SYSTEMS **MAINTENANCE**

16 CREDITS

DESCRIPTION: This certificate has been developed to train students to compete in the field of computer systems maintenance. It is designed to provide students with basic computer, diagnostic and customer relations skills essential for a successful computer service technician. This certificate can help prepare students for an industry-recognized professional A+ exam.

PROGRAM NOTES: Students must earn a grade of "C" or better in all Required Courses. "+" indicates prerequisite.

REQUIRED C	REQUIRED COURSES: Credits: 1		16
+ BPC170	Computer Maintenance I: A+ Prep		3
CIS102	Interpersonal & Customer Service Skill	S	
	for IT Professionals		1
CIS105	Survey of Computer Information System	ms	3
CIS/BPC12	1AB MS-DOS Operating System		1
CIS126AL	Linux Operating System		1
CIS/BPC12	1AE Windows Operating System: Level	I	1
+ CIS190	Introduction to Local Area Networks (3	OR	
MST140	Microsoft Networking Essentials (3)		3
MST150++	Microsoft Windows Professional (any r	nodule)	3

CERTIFICATE OF COMPLETION: 5204 LINUX PROFESSIONAL

12 CREDITS

DESCRIPTION: This program will help to prepare students for a variety of industry-recognized Linux certification exams as well as provide practical hands-on skills for the work place. The program includes a core of Linux classes including Linux operating system basics, System Administration, Network Administration and Network Security. These classes will ensure a student'sknowledge and skill level in preparation for employment or for improving current professional skills. Objectives for a variety of industry certifications are encompassed within course and program objectives.

PROGRAM NOTES: Students must earn a grade of "C" or better for all courses required within the program. Note: +indicates course has prerequisites and/or corequisites

REQUIRED C	OURSES:	Credits:	6
CIS126DL	Linux Operating System (3) OR		
CIS126AL	Linux Operating System I (1) AND		
+CIS126BL	Linux Operating System II (1) AND		
+CIS126CL	Linux Operating System III (1)		3
+CIS238DL	Linux System Administration		3
RESTRICTED	ELECTIVES:	Credits:	6
BPC/CIS121	IAB MS DOS Operating System		1
+ BPC170	Computer Maintenance I: A+ Prep		3
+ BPC273	Advanced Server Computer Maintenance	e:	
	Server+ Prep		3
0.0			

CIS105	Survey of Computer Information Systems	3
	3 1	5
+ CIS190	Introduction to Local Area Networks	3
+CIS240DL	Linux Network Administration	3
+ CIS270	Essentials of Network & Information Security	3
+CIS271DL	Linux Security	3
CNT140	Cisco Networking Fundamentals (4) OR	
MST140	Microsoft Networking Essentials (3)	3-4
+ CNT150	Cisco Networking Router Technologies	3
MST150++	Microsoft Windows Professional	3
	Note: Any module.	

CERTIFICATE OF COMPLETION: 5159

WEB DESIGN

18 CREDITS

DESCRIPTION: The certificate in Web Design is intended for those interested in designing and maintaining web pages for personal or small business use.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates course has prerequisite(s) and/or corequisite(s).

REQUIRED COURSES: Credits: C1S 120DC Computer Graphics: Macromedia Flash	18 3
BPC/CIS120DF Comp. Graph: Adobe Photoshop (3) OR BPC/CIS120AF Comp. Graph: Adobe Photoshop I (1) AND BPC/CIS120BF Comp. Graph: Adobe Photoshop II (1) AND BPC/CIS120CF Comp. Graph: Adobe Photoshop III (1)	3
BPC/CIS133DA Internet/Web Development Level I + CIS166++ any module + CIS233DA Internet/Web Development Level II + CIS235 e-Commerce	3 3 3 3

CERTIFICATE OF COMPLETION: 5051

WEB DEVELOPER

30 CREDITS

DESCRIPTION: The Web Developer Certificate of Completion prepares a software developer to properly create and maintain web applications. In addition to web page development, this certificate prepares software developers to fully manage and develop corporate web systems using interactive applications. Developers will be able to write programs to manage corporate database via the web.

PROGRAM NOTES: Students must earn a grade of "C" or better in all Required Courses. "+" indicates prerequisite. "++" indicates any module.

REQUIRED C	OURSES:	Credits:	30
CIS 105	Survey Computer Info Systems		3
CIS/BPC 11	7DM Microsoft Access: Database Mana	gement	3
CIS 120DC	Computer Graphics: Macromedia Flash	1	3
	0DF Computer Graphics: Adobe Photos 0AF Comp. Graphics: Adobe Photoshop	_	

+ CIS/BPC 120BF Comp. Graph: Adobe Photoshop II (1) AND + CIS/BPC 120CF Comp. Graph: Adobe Photoshop III (1)

BIO 156

	CIS 126AA	UNIX Operating System: Level I	1
	CIS/BPC 13	3DA Internet/Web Development Level I	3
+	CIS 166++	any module	3
+	CIS 233DA	Internet/Web Development Level II	3
+	CIS 234	XML Application Development	3
+	CIS 235	e-Commerce	3
+	CIS 290AB	Comp. Information Systems Internship (2) OR	
+	CIS 296WB	Cooperative Education (2) OR	
	CIS 298AB	Special Projects (2)	2

DIETETIC TECHNOLOGY

DESCRIPTION: The Dietetic Technology program is an Associate in Applied Science degree emphasizing medical nutrition therapy and food service management. Students acquire the knowledge and skills foundation to work in dietetics through the integration of classroom learning and 466 hours of supervised practice. Emphasis is placed on the development of communication and human relations techniques that prepare the graduate for professional success. The AAS degree program in Dietetic Technology is a Consortium Program with Chandler-Gilbert Community College.

Upon successful completion of the program, the graduate will be eligible to take the Dietetic Technician Registration Examination of the Commission on Dietetic Registration (CDR).

JOB DESCRIPTION & OPPORTUNITIES: The Dietetic Technician, Registered is prepared to play a key role in providing quality, cost-effective client care and food service management in a variety of employment settings. Job responsibilities may include patient counseling and education in basic and therapeutic nutrition, medical record documentation, health promotion and disease prevention, menu development, and supervisory and administrative skills related to nutrition services and institutional food production.

Dietetic Technicians are an integral part of health care and food service management teams. They work independently or in partnership with Registered Dietitians in a variety of settings: Clinical, Hospitals, clinics, nursing homes, retirement centers, home health care programs, and research facilities; food service; schools, daycare centers, correctional facilities, restaurants, hospitals, and long-term care facilities; Community and Public Health; WIC programs; wellness; health clubs, and weight management clinics; business; food companies, food venders, and food distributors.

ASSOCIATE IN APPLIED SCIENCE: 3840

DIETETIC TECHNOLOGY

65-71 CREDITS

PROGRAM NOTES: Students must earn a grade of "C" or better for all courses required within the program. "+" indicates course has prerequisites and/or corequisites. Overall GPA: 2.0

PROGRAM PREREQUISITES: Credits: 4

Area Note: Students selecting BIO201 in the Required Courses area must complete BIO156 or BIO181 in consultation with a program advisor.

BIO 181	General Biology (Majors) I (4)	4
	OREQUISITE: CPR Certification for the American Red Cross or the Am	
	OURSES: Cr tudents selecting BIO201 in the Requ olete BIO156 or BIO181 in the Program	
BIO 160 + BIO 201 + BIO 202	Intro. to Human Anatomy & Physiology Human Anatomy & Physiology I (4) AN Human Anatomy & Physiology II (4)	
+ BPC 101BA + BPC 101CA BPC/CIS114 BPC/CIS117	Computer Usage and Applications (3) C Introduction to Microcomputers I: IBM Introduction to Microcomputers II: IBM Introduction to Microcomputers III: IB ++ Spreadsheet Level I (any module) (1 ++ Database Mgt Level I (any module) 0++ Personal Word Processing (any mo	(1) AND I (1) AND M (1) OR) AND (1) AND
FON 104 FON 125 FON 142AB	Cert. in Food Service Safety & Sanitation Intro. to Profession Nutrition & Dieteti Applied Food Principles Intro. to Nutrition Services Management Research in Complementary & Alternat Nutrition Therapy	on 1 cs 1 3 t 3
+ FON244AB + FON 245AA + FON 245AB + FON 246AA + FON 246AB + HCC145AA	Principles of Human Nutrition Introduction to Planning Therapeutic Di Practicum I: Food Service Managemen Practicum II: Food Service Managemen Practicum II: Medical Nutrition Therap Practicum III: Community Nutrition Practicum III: Community Nutrition-La Med. Terminology for Health Care Wor Lifetime Fitness	t 2 t-Lab 3 py 2 py-Lab 2 ab 2
		edits: 25-27
CORE: First-Year Com + ENG101 + ENG107 + ENG102 + ENG108 + ENG111		
Oral Communic COM 100 COM 110 + COM 225 + COM 230	cation Introduction to Human Communication Interpersonal Communication (3) OR Public Speaking (3) OR Small Group Communication (3)	(3) OR
Critical Reading + CRE 101 + CRE 111	g Critical and Evaluative Reading I (3) Of Critical Reading for Business/Industry (

Human Biology for Allied Health (4) OR

	Intermediate Algebra (5) OR Intermediate Algebra (4) OR Intermediate Algebra (3) OR s indicated by assessment OR completion of a higher-level mathematic		3-5
DISTRIBUTIO	ON:	Credits:	10
Humanities and Fine Arts Any approved general education course in the Humanities & Fine Arts area			3
Social and Beh	avioral Sciences		3
PSY 101 SOC 101	Introduction to Psychology (3) OR Introduction to Sociology (3)		
Natural Science	es		4
+ CHM 130	Fundamental Chemistry (3) AND		
+ CHM 130LL	Fundamental Chemistry Laboratory (1)	OR	
+ CHM 151	General Chemistry I (3) AND		
+ CHM 151LL	General Chemistry I Laboratory (1)		

EARLY CHILDHOOD **EDUCATION**

CERTIFICATE OF COMPLETION: 5016

EARLY CHILDHOOD EDUCATION

36 CREDITS

DESCRIPTION: The Early Childhood Education certificate is designed to prepare students for employment as early childhood teachers in a variety of educational programs. Students learn effective teaching skills as they apply developmentally appropriate early childhood educational theory to the classroom setting. Courses have been selected with a focus on developing an educational career ladder.

OVERALL G.P.A.: 2.0

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses required within the program. "+" indicates prerequisite required.

R	EQUIRED CO	OURSES: Credits:	30
	CFS 101AH	Art Activities for the Young Child	1
	CFS 123	Health in Early Childhood Settings	1
	CFS 125	Safety in Early Childhood Settings	1
	CFS/ECH 17	6 Child Development	3
	CFS 177	Parent-Child Interaction	3
+	CFS/ECH 26	9 Child Care Seminar	1
	CFS 282	Mainstreaming the Young Child with a Disability	1
+	CFS 285AA	Family-School Interaction: Preschool	1
	ECH 214	Preschool Education	3
	ECH 270	Observing Young Children	1
	ECH 271	Arranging the Environment	1
	ECH 272	Science for the Young Child	1

ECH 273	Math for the Young Child	1
ECH 275	Literacy Development and the Young Child	1
ECH 279	Early Childhood Curriculum Development	1
ECH 281	Movement/Music for the Young Child	1
ECH 282	Discipline/Guidance of Child Groups	1
+ ECH 284AB	Early Childhood Teaching Internship	3
ECH 287	Prof. Developmt in Early Childhd Education	1
EDU 230	Cultural Diversity in Education	3
	-	

RESTRICTED ELECTIVES:

Credits: 6 Area Notes: Select a minimum of 6 credits from the following courses. "+" indicates prerequisite is required.

CFS +++	any Child & Family Studies course
ECH+++	any Early Childhood Education course
EDU+++	any Education course
EED+++	any Early Education course
ITD+++	any Infant/Toddler Development course

ASSOCIATE IN APPLIED SCIENCE: 3836

EARLY CHILDHOOD EDUCATION

64 CREDITS

DESCRIPTION: The Early Childhood Education Degree is designed to prepare students for employment as early childhood teachers in a variety of educational programs. Students learn effective teaching skills as they apply developmentally appropriate early childhood educational theory to the classroom setting. Courses have been selected with a focus on developing an educational career ladder. The AAS program includes additional early childhood electives and general studies classes to broaden the students' base of knowledge.

OVERALL G.P.A.: 2.0

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses required within the program. "+" indicates prerequisite required.

REQUIRED COURSES: Credits:	30
CFS 101AH Art Activities for the Young Child	1
CFS 123 Health in Early Childhood Settings	1
CFS 125 Safety in Early Childhood Settings	1
CFS/ECH 176 Child Development	3
CFS 177 Parent-Child Interaction	3
+ CFS/ECH 269 Child Care Seminar	1
CFS 282 Mainstreaming the Young Child w/Disablty	1
+ CFS 285AA Family-School Interaction: Preschool	1
ECH 214 Preschool Education	3
ECH 270 Observing Young Children	1
ECH 271 Arranging the Environment	1
ECH 272 Science for the Young Child	1
ECH 273 Math for the Young Child	1
ECH 275 Literacy Development and the Young Child	1
ECH 279 Early Childhood Curriculum Development	1
ECH 281 Movement/Music for the Young Child	1
ECH 282 Discipline/Guidance of Child Groups	1
+ ECH 284AB Early Childhood Teaching Internship	3
ECH 287 Prof. Development in Early Chldhd Educ.	1
EDU 230 Cultural Diversity in Education	3

RESTRICTED ELECTIVES: Credits: 9				
	elect a minimum of 9 credits from the followerequisite is required. any Child & Family Studies course any Early Childhood Education course any Education course any Early Education course any Infant/Toddler Development course	Ü		
GENERAL ST	TUDIES REQUIREMENTS	Credits: 25		
CORE:		Credits: 15		
First-Year Con + ENG 101 + ENG 107 + ENG 102 + ENG 108	First-Year Composition (3) OR First Year Composition for ESL (3) AN First-Year Composition (3) OR First Year Composition for ESL (3)	6 ND		
Oral Communi COM 110 COM 230	Interpersonal Communication (3) OR Small Group Communication (3)	3		
Critical Readir + CRE 101 equivalent a	ng Critical and Evaluative Reading (3) OF s indicated by assessment	3		
Mathematics 3 Any approved general education course in the Mathematics area.				
DISTRIBUTIO	ON:	Credits: 10		
Humanities & Fine Arts 3 EDU 291 Children's Literature (3) OR ENH 291 Children's Literature (3) OR Any approved general education course from the Humanities & Fine Arts area.				
CFS157 Any approve	vioral Sciences Marriage and Family Life (3) OR ed general education course in the Social Sciences area.	3 &		
	Natural Sciences 4 Any approved general education course in the Natural Sciences			

EMERGENCY MANAGEMENT

CERTIFICATE OF APPLIED SCIENCE: 5304

EMERGENCY MANAGEMENT

18 CREDITS

DESCRIPTION: The CCL (Certification of Completion) in Emergency Management provides the student with knowledge and skills required to conduct a comprehensive emergency management program. The program prepares students to manage fire department operations, hazardous materials incidents, tactics, strategy, and safety of firefighting activities, and customer service in the public sector. The student will be prepared for positions such as Emergency Manager, Emergency Management Planner, Emergency Operations Coordinator, Environmental Compliance Planner, and Emergency Management Specialist, working in state, local, federal, and international governments, business and industry, military installations, and health care facilities.

PROGRAM REQUIREMENTS:

Note: + indicates course has prerequisites and/or corequisites. Note: Students must earn a grade of "C" or better in all courses within the program.

ADMISSION CRITERIA: None PROGRAM PREREQUISITES: None

REQUIRED COURSES:	Credits: 18
AJS/FSC139 Emergency Response to Terr	rorism 3
AJS/FSC146 Disaster Recovery Operation	ns 3
AJS/FSC147 Emergency Preparedness	3
AJS/FSC148 Fundamentals of Emergency	Management 3
AJS/FSC149 Hazard Mitigation	3
AJS/FSC224 Incident Command Systems	3

Associate of Applied Science: 3018

EMERGENCY MANAGEMENT

64 CREDITS

DESCRIPTION: The AAS (Associate in Applied Science) in Emergency Management provides the student with knowledge and skills required to conduct a comprehensive emergency management program. The program prepares students to manage fire department operations, hazardous materials incidents, tactics, strategy, and safety of firefighting activities, and customer service in the public sector. The student will be prepared for positions such as Emergency Manager, Emergency Management Planner, Emergency Operations Coordinator, Environmental Compliance Planner, and Emergency Management Specialist, working in state, local, federal, and international governments, business and industry, military installations, and health care facilities.

PROGRAM NOTES: + indicates course has prerequisites and/or corequisites. Students must earn a grade of "C" or better in all courses within the program

area.

AJS/FSC146 AJS/FSC147 AJS/FSC149 AJS/FSC224 FSC105 RESTRICTED AJS195 AJS225 AJS270 AJS275 FSC211 FSC212 Approved co	Introduction to Criminal Justice Emergency Response to Terrorism Disaster Recovery Operations Emergency Preparedness Fundamentals of Emergency Manage Hazard Mitigation Incident Command Systems Hazardous Materials/First Responder	Credits: 1	3 3 3 3 3 3 3 5-18 3 3 3
FREE ELECTI	VES: None		
GENERAL ED	UCATION REQUIREMENTS:	Credits: 2	5-27
CORE		Credits: 1	5-17
First-Year Com + ENG101 + ENG102 Oral Communic	First-Year Composition (3) AND First-Year Composition (3)		6
Any approve	d general education course in the inication area		3
Critical Readin Any approve Critical Read	d general education course in the		3
Mathematics + MAT102	Mathematical Concepts/Applications	OR higher	3-5 r
DISTRIBUTIO)N	Credits	: 10
Humanities & I AJS123	Fine Arts Ethics and the Administration of Justi	ice	3
Social and Beha AJS258	avioral Sciences Victimology and Crisis Management		3
Natural Science Any approved g	es general education course in the Natura	l Sciences	4 area

EMERGENCY MEDICAL TECHNOLOGY

CERTIFICATE OF COMPLETION: 5143

BASIC EMERGENCY MEDICAL TECHNOLOGY

8 CREDITS

DESCRIPTION: The program includes techniques of emergency care, stabilization, and immobilization of victims of illness and injury. Recognition and documentation of signs and symptoms of illness and injury, intervention, and evaluation of the intervention are integrated into the program. Techniques for assessment, administration of oxygen, use of specific immobilization devices, and preparation for transportation are other areas of the program.

ADMISSION CRITERIA: Student must 18 years or older at time of admission to the program. Proof of TB testing or chest x-ray with a negative result within 6 months prior to admission. Proof of immunity to measles, mumps and rubella.

PROGRAM REQUIREMENTS:

Students must earn a grade of "C" or better in the Required Course. "+" indicates course has prerequisites and/or corequisites. Minimum ninth grade level reading proficiency on the Nelson-Denny Examination) OR (ASSET reading test with a minimum score of 41) OR (COMPASS reading test with a minimum score of 81).

PROGRAM PREREQUISITES: Credits: 0.5

Minimum ninth grade level reading proficiency on the Nelson-Denny Examination OR
ASSET reading test with a minimum score of 41 OR
COMPASS reading test with a minimum score of 81
EMT/HLR101 CPR: Basic Cardiac Life Support OR
Current Healthcare Provider certification from the
American Heart Association, CPR for Professional
Rescuer from the American Red Cross or other equivalent
organization at Healthcare Provider Level, meeting the new
Guidelines 2002

PROGRAM NOTES: + indicates course has prerequisites and/or corequisites.

REQUIRED COURSES: Credits: 8

Students must earn a grade of "C" or better in the Required Course.

+ EMT/FSC104 Basic Emergency Medical Technology

CERTIFICATE OF COMPLETION: 5513

ADVANCED EMERGENCY MEDICAL TECHNOLOGY (PARAMEDIC)

37.5 CREDITS

DESCRIPTION: The Certificate of Completion (CCL) in Advanced Emergency Medical Technology (Paramedic) is designed to provide advanced techniques of emergency care, stabilization, and immobilization of victims of illness and injury. The techniques of emergency care include but are not limited to assessment, detailed physical examination, recognition and documentation of signs and symptoms of illness and injury, critical thinking and diagnosis intervention, and the evaluation of the interventions. The techniques of assessment include but are not limited to electrocardiograph rhythm identification, administration of oxygen, defibrillation, synchronized cardioversion, transcutaneous pacing, and advanced airway techniques. The techniques for immobilization of the victim include but are not limited to the use of specific immobilization devices, peripheral intraosseous and central intravenous techniques, and preparation and care during transportation. An Associate in Applied Science (AAS) is also available.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses required within the program. + indicates course has prerequisite and/or corequisite

ADMISSION CRITERIA: Prior to being considered for and accepted into the program, students must complete specified exams and an oral interview with the EMT/FSC department. Additionally, students must have a recommendation from a referring agency. Finally, students should seek department advisement on completing program prerequisites prior to acceptance into the program.

	REREQUISITES:	011	edits: 8
+ Basic Emer	gency Medical Technology Certificate (5268)	8
REQUIRED (COURSES:	Credi	ts: 34.5
+ EMT245	Trauma Management I		2
+ EMT272A	A Advanced Emergency Medical Technology	ology	(12.5)
AND			
+ EMT272AE	3 Adv. Emergency Medical Technology	(12.5)	25
+ EMT272LL	Adv. Emergency Medical Technology	Practio	cum 7.5
RESTRICED	ELECTIVES:	Cred	lits: 3-4
SPA101	Elementary Spanish I, recommended		
EMT120	Spanish for Emergency-Care Provider	S	1

Advanced Cardiac Life Support

Pediatric Advanced Life Support

Trauma Management II

Elementary Spanish I

+ EMT165

+ EMT240

+ EMT242

+ EMT246

+ SPA101

Pediatric Educ for Prehospital Providers: Basic

2

2

1

4

ASSOCIATE OF APPLIED SCIENCE: 3065

ADVANCED EMERGENCY MEDICAL TECHNOLOGY (PARAMEDIC)

63.5 CREDITS

DESCRIPTION: The Associate in Applied Science (AAS) in Advanced Emergency Medical Technology (Paramedic) is designed to provide advanced techniques of emergency care, stabilization, and immobilization of victims of illness and injury. The techniques of emergency care include but are not limited to assessment, detailed physical examination, recognition and documentation of signs and symptoms of illness and injury, critical thinking and diagnosis intervention, and the evaluation of the interventions. The techniques of assessment include but are not limited to electrocardiograph rhythm identification, administration of oxygen, defibrillation, synchronized cardioversion, transcutaneous pacing, and advanced airway techniques. The techniques for immobilization of the victim include but are not limited to the use of specific immobilization devices, peripheral intraosseous and central intravenous techniques, and preparation and care during transportation. A Certificate of Completion (CCL) is also available.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses required within the program. "+" indicates course has prerequisites and/or corequisites.

ADMISSION CRITERIA: Prior to being considered for and accepted into the program, students must complete specified exams and an oral interview with the EMT/FSC department. Additionally, students must have a recommendation from a referring agency. Finally, students should seek department advisement on completing program prerequisites prior to acceptance into the program.

PROGRAM PREREQUISITES:		25-42
+ Rasic Emergency Medical Technology Certificate	(8) OR	

+ Basic Emergency Medical Technology Certificate (8) OR Intermediate Emergency Med. Technology Certificate (25) 8-25

memediale	Emergency Med. Technology Certificate (23)	0-23
+ BIO201 + BIO202	Human Anatomy and Physiology I Human Anatomy and Physiology II	4 4
+ CRE101 + CRE111	Critical and Evaluative Reading I (3) OR Critical Reading for Business and Industry (3) Equivalent as indicated by assessment	OR 3
+ MAT102	Mathematical Concepts/Applications (3) OR Equivalent OR	
	Satisfactory score on District placement exam	3
PSY101	Introduction to Psychology	3
REQUIRED COURSES: Credits: 42.5		
+ EMT235	Emergency Cardiac Care	3
+ EMT236	Pharmacology in an Emergency Setting	3
+ EMT/FSC23	38 Vehicular Extrication and Patient Stabilizatio	n 2
+ EMT245	Trauma Management I	2
+ EMT272AA AND	Advanced Emergency Med. Technology (12.5)	
+ EMT272AB	Advanced Emergency Med. Technology (12.5)	25

+	EMT272LL	Adv. Emergency Med. Technology Prac	ticum	7.5
R	ESTRICED E	ELECTIVES:	Credits	: 9
	SPA101	Elementary Spanish I, recommended		
+	EMT116	Emergency Medical Communications (I	EMD)	1.5
	EMT120	Spanish for Emergency-Care Providers	,	1
+	EMT130	Adv. Life Support (ALS) Assist for Basis	ic EMTs	1
+	EMT215	Stress and Emergency Services Professi		3
+	EMT240	Advanced Cardiac Life Support		2
	EMT242	Pediatric Advanced Life Support		1
	EMT246	Trauma Management II		4
+	PSY266	Abnormal Psychology		3
	SPA101	Elementary Spanish I		4
G	ENERAL ED	UCATION:	Credits:	12
C	ORE: Credits	: 9		
Fi		position d general education courses in the omposition area.		6
О	ral Communio COM100 In	cation troduction to Human Communication		3
C	ritical Readin Met by CRE	g 101 or CRE111, in Program Prerequisite	area	0
M	athematics Met by MAT	102, in Program Prerequisite area.		0
D	ISTRIBUTIO	N: Credits: 3		
Η		I Fine Arts d general education course in the and Fine Arts area.		3
S		avioral Sciences 101, in Program Prerequisite area.		0
N	atural Science Met by BIO2	es 201, in Program Prerequisite area.		0

94

FIRE SCIENCE

CERTIFICATE OF COMPLETION: 5486

BASIC FIRE FIGHTER

30 CREDITS

DESCRIPTION: The Fire Science Technology certificate is designed for students who need (1) advanced training as professional firefighters, (2) basic preparation courses for a career in fire services and/or (3) more comprehensive information about the fire hazard and prevention. Certificate can be used by professional firefighters for promotions and salary advancement within the Fire Services. The program will provide courses for plant safety for fire protection personnel and basic emergency services for laypersons who need intensive first aid training. The unique feature of the program is that the instructors are professional firefighters and/or licensed Emergency Medical Training Personnel.

PROGRAM REQUIREMENTS:

Students must earn a grade of "C" or better in all courses within the program. "+" indicates course has prerequisites and/or corequisites.

PROGRAM PREREQUISITES: None

REQUIRED COURSES: Credits: 30

+ EMT104	Basic Emergency Medical Technology	8
+ EMT238	Vehicular Extrication and Patient Stabilization	2
FSC102	Fire Department Operations	11
FSC105	Hazardous Materials First Responder	3
FSC108	Fundamentals of Fire Prevention	3
FSC208	Firefighter Safety/Building Construction	3

CERTIFICATE OF COMPLETION: 5514

FIRE SCIENCE

37 CREDITS

DESCRIPTION: The Certificate of Completion (CCL) in Fire Science provides practical firefighting, hazardous materials, related operations and fire service management emphasis in this program with history and theory used where necessary to assist professionals to cope with current challenges in the field. This curriculum is designed to (1) provide training for professional fire service personnel in order that they may most efficiently perform their duties (2) prepare people for a career in Fire Service or related field, and (3) provide people with a better understanding of fire and related hazards and challenges faced in providing public safety services. An Associate in Applied Science (AAS) is also available.

PROGRAM NOTES: "+" indicates course has prerequisites and/or corequisites. Students must earn a grade of "C" or better in all courses within the program.

PROGRAM PREREQUISITES: None

OURSES:	Credits:	21
Hazardous Materials/First Responder		3
Fundamentals of Fire Prevention		3
Introduction to Fire Suppression		3
	Hazardous Materials/First Responder Fundamentals of Fire Prevention	Hazardous Materials/First Responder Fundamentals of Fire Prevention

FSC131	Introduction to Urban Technical Rescue	3
FSC202	Supervisory Training for Firefighters	3
+ FSC204	Firefighting Tactics and Strategy	3
+ FSC208	Firefighter Safety and Building Construction	3
RESTRICED	ELECTIVES: Credits:	16
Students shou	ld select 16 credit hours from the following course	es in
	vith a department advisor.	
	04 Basic Emergency Medical Technology	8
+ EMT/FSC2	38 Vehicular Extrication and Patient Stabilization	2
FSC101++	Introduction to Fire Service Selection (3) OR	
	Modular equivalents	3
+ FSC102	Fire Department Operations	11
FSC106	Introduction to Fire Protection	3
FSC114	Haz. Materials First on Scene/Awareness Level	0.5
FSC117	Fire Apparatus	3
FSC118	Fire Hydraulics	3
FSC130	Fitness for Firefighters/CPAT	1
FSC134++	Fitness & Conditioning/Firefighters (3) OR	
	Modular equivalents	3
FSC135	Fire Service Information Management	3
FSC152	Engine Company Officer	1
+ FSC205	Command Strategies for Major Emergencies	3
FSC209	Fire Investigation	3
+ FSC214	Human Resource Management in Fire Service	3
FSC221	Ladder Company Officer	1
GBS/LAS2	06 Business Law (UCC)	3
_		

ASSOCIATE OF APPLED SCIENCE: 3064

FIRE SCIENCE

64 CREDITS

DESCRIPTION: The Associate in Applied Science (AAS) in Fire Science provides practical firefighting, hazardous materials, related operations, and fire service management emphasis in this program with history and theory used where necessary to assist professionals to cope with current challenges in the field. This curriculum is designed to (1) provide training for professional fire service personnel in order that they may most efficiently perform their duties, (2) prepare people for a career in Fire Service or a related field, and (3) provide people with a better understanding of fire and related hazards and challenges faced in providing public safety services. A Certificate of Completion (CCL) is also available.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses within the program. If pursuing Bachelor's degree program, contact department advisor. "+" indicates course has prerequisites and/or corequisites.

PROGRAM PREREQUISITES: None

REQUIRED C	OURSES:	Credits:	21
FSC105	Hazardous Materials/First Responder		3
FSC108	Fundamentals of Fire Prevention		3
FSC113	Introduction to Fire Suppression		3
FSC131	Introduction to Urban Technical Rescue		3
FSC202	Supervisory Training for Firefighters		3
+ FSC204	Firefighting Tactics and Strategy		3
+ FSC208	Firefighter Safety and Building Constru	ction	3

	RESTRICED ELECTIVES: Credits: Students should select 18 credit hours from the following course consultation with a department advisor.	
	consultation with a department advisor. ACC111 Accounting Principles I (3) AND	
	+ ACC112 Accounting Principles II (3) AND	
	+ ACC212 Managerial Accounting (3) OR	9
	+ EMT/FSC104 Basic Emergency Medical Technology	8
	+ EMT/FSC238 Vehicular Extrication and Patient Stabilization	2
	FSC101++ Introduction to Fire Service Selection (3) OR Modular Equivalents	3
	+ FSC102 Fire Department Operations	11
	FSC106 Introduction to Fire Protection	3
		0.5
	FSC117 Fire Apparatus FSC118 Fire Hydraulics	3
	FSC130 Fitness for Firefighters/CPAT	1
	FSC134 Fitness & Conditioning/Firefighters (3) OR	1
	Modular Equivalents	3
	FSC135 Fire Service Information Management	3
	FSC152 Engine Company Officer	1
	+ FSC205 Command Strategies for Major Emergencies	3
	FSC209 Fire Investigation	3
	+ FSC214 Human Resource Management in Fire Service	3
	FSC221 Ladder Company Officer GBS/LAS206 Business Law (UCC)	1 3
	GENERAL EDUCATION REQUIREMENTS: Credits:	25
	CORE: Credits: 15	
	First-Year Composition	
	+ Any approved general education courses in the First Year Composition area.	6
	•	
	Oral Communication COM100 Introduction to Human Communication	3
	Critical Reading	
	+ Any approved general education course in the	
	Critical Reading area.	3
	Mathematics	
	+ Any approved general education course in the	
	Mathematics area.	3
	DISTRIBUTION: Credits: 10	
	Humanities and Fine Arts	
	Any approved general education course in the	
	Humanities and Fine Arts area.	3
	Social and Behavioral Sciences	
	Any approved general education course in the	
	Social and Behavioral Sciences area.	3
	Recommend SOC101 OR SOC140.	
	Natural Sciences	
	+ Any approved general education course in the	
	Natural Sciences area. Recommend BIO101 OR CHM130 AND CHM130LL	4
	OR PHY101.	
1	V	

ASSOCIATE IN APPLIED SCIENCE: 3056

FIRE SCIENCE TECHNOLOGY

69-71 CREDITS

DESCRIPTION: The Fire Science Technology Certificate of Completion and Associate in Applied Science (AAS) are designed for students who need (1) advanced training as professional firefighters, (2) basic preparation courses for a career in fire services, and/or (3) more comprehensive information about fire hazard and prevention. The Degree and Certificate can be used by professional firefighters for promotions and salary advancement within the Fire Services. The unique feature of the Degree and Certificate is that the instructors will be professional firefighters and/or licensed Emergency Medical Training Personnel.

PROGRAM REQUIREMENTS: "+" indicates course has prerequisites and/or corequisites. Students must earn a grade of "C" or better in all courses within the program.

PROGRAM PREREQUISITES: None

REQUIRED C	OURSES:	Credits: 40
FSC102	Fire Department Operations I	11
FSC105	Hazardous Materials First Responder	3
FSC118	Fire Hydraulics	3
FSC108	Fundamentals of Fire Prevention	3
FSC111	Emergency Vehicle Driver Operator	2
FSC202	Supervisory Training for Firefighters	3
FSC117	Fire Apparatus	3
FSC204	Firefighting Tactics and Strategy	3
FSC205	Command Strategies for Major Emerge	encies 3
FSC208	Firefighter Safety and Building Constru	iction 3
FSC214	Human Resource Management for Fire	
RESTRICED I	ELECTIVES:	Credits: 4
-	Fire Science Tech (Any approved FSC	course.) 4
GENERAL ED	OUCATION REQUIREMENTS: C1	redits: 25-27
CORE:	Cı	redits: 15-17
First-Year Com	position	
ENG101	First-Year Composition (3) OR	
ENG107	First-Year Composition for ESL (3) AN	ID
ENG102	First-Year Composition (3) OR	
ENG111	Technical Writing (3)	6
	0	Ü
Oral Communication		
COM100	Introduction to Human Communication	(3) OK
COM110	Interpersonal Communication (3) OR	
COM225	Public Speaking (3) OR	2
COM230	Small Group Communication (3)	3
Critical Readin	g	
CRE101	Critical and Evaluative Reading I (3) O	R
CRE111	Reading for Business, and Industry (3)	OR
	equivalent by assessment	3
Mathematics		
MAT102	Mathematical Concepts/Applications (3	3) OR
MAT120	Intermediate Algebra (5) OR	

equivalent as indicated by assessment OR
approved math courses which are required in a
specific AAS program OR

Intermediate Algebra (3) OR

satisfactory completion of a higher mathematics course.

3-5

DISTRIBUTION: Credits: 10

Humanities and Fine Arts

MAT122

Any approved general education course in the

Humanities and Fine Arts area 3

Social and Behavioral Sciences

Any approved general education course from the Social and Behavioral Sciences area

SOC101 Introduction to Sociology recommended

Natural Sciences

Any approved general education course from the Natural Sciences area

The following courses are recommended.

BIO100 Biology Concepts (4) OR CHM130 Fundamental Chemistry (3) AND CHM130LL Fundamental Chemistry Lab (1) OR PHY101 Introduction to Physics (4)

GENERAL BUSINESS

JOB DESCRIPTION: General Business graduates may find employment in retail store management, customer relations, management of distribution warehouses, service management, etc.

JOB OPPORTUNITIES: Indications are that employment will be good in the future.

TRANSFERABILITY: Many of the courses required in this program transfer to a four year university. However, it is critical that the student check with an advisor for specifics.

CERTIFICATE OF COMPLETION: 5262

GENERAL BUSINESS

33 CREDITS

DESCRIPTION: The Certificate of Completion in General Business is designed for those employed in the field who need or want continuing education, or for those who cannot pursue a degree at this time, but want to enter the business field at an entry level point.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite.

REQUIRED COURSES: Credits: 33

ACC 111	Accounting Principles I	3
+ ACC 112	Accounting Principles II	3

C ... 1:4-. 24

Credits: 13-15

	BPC 110	Computer Usage & Applications (3) OR	
	CIS 105	Survey of Computer Info.Systems (3)	3
	ECN 111	Macroeconomic Principles	3
	ECN 112	Microeconomic Principles	3
	GBS 151	Introduction to Business	3
	GBS 205	Legal, Ethical Regulatory Issues in Business	3
+	GBS 233	Business Communication	3
	MGT 175	Business Organization & Managemt	3
	MGT 251	Human Relations in Business	3
	MKT 271	Principles of Marketing	3

Associate in Applied Science: 3051

GENERAL BUSINESS

61-66 CREDITS

DESCRIPTION: This program is designed for students who plan to attend college for two years only and are preparing for entry-level position in business. This career program leads to an Associate in Applied Science in General Business.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite. "++" indicates any module.

REQUIRED COURSES:		RSES: Credits:	24
	ACC 111	Accounting Principles I	3
+	ACC 112	Accounting Principles II	3
	BPC 110	Computer Usage & Applications (3) OR	
	CIS 105	Survey of Computer Info.Systems (3)	3
	ECN 111	Macroeconomic Principles	3
	GBS 151	Introduction to Business	3
	GBS 205	Legal, Ethical & Regulatory	
		Issues in Business	3
+	GBS 233	Business Communication	3
	MGT 175	Business Organization & Management	3

RESTRICTED ELECTIVES:

DECLUDED COURCES.

Students must choose one of the following specialized areas and successfuly complete all courses listed in that area.

•	*		
Accounting		Credits:	14
+ ACC115	Computerized Accounting (2)		
+ ACC212	Managerial Accounting (3)		
+ ACC219	Intermediate Accounting (3)		
+ ACC221	Tax Accounting (3)		
+ ACC222	Payroll Accounting (3)		
Computer Info	ormation Systems	Credits:	15
CIS102	Interpersonal & Customer Service Skill	s (1)	
~~~.			

C	omputer Info	ormation Systems	Credits
	CIS102	Interpersonal & Customer Service Skil	ls (1)
	CIS109AM	Networking Technology (2)	
	CIS 133DA	Internet/Web Development Level I (3)	
	CIS224	Project Mgt MS Project Windows (3)	
+	CIS235	e-Commerce (3)	
+	ENG111	Technical Writing (3)	

Customer Service Credits: 13-15

MGT109 Dev. of Professional Skills & Standards (3) MGT126 Customer Service Skills & Strategies (3)

MGT229 MGT296++ MKT267	Management & Leadership (3) Special Project /Coop Ed (1-3) Principles of Salesmanship (3)	
Finance		Credits: 13
GBS103 GBS132 GBS206 GBS261 IBS104	Principles of Banking (3) Personal & Family Financial Securit Business Law (3) Investments I (3) International Finance (1)	
General Busin	iess	Credits: 15
IBS 101 MGT229 MKT101 MKT267 MKT271	Introduction to International Busines Management and Leadership (3) Introduction to Public Relations (3) Principles of Salesmanship (3) Principles of Marketing (3)	
International 1	Business	Credits: 15
IBS101 IBS102	Introduction to International Busines International Marketing (2)	
IBS102	International Finance (1)	
IBS105	International Law (2)	
IBS108	Basics of Import/Export Operations	(2)
IBS121	Export Marketing Case Studies (2)	
+++++	any foreign language (ARB, FRE, CITA, JPN, SPA, etc) (3)	ER,
Management		Credits: 15
MGT175	Business Organization & Manageme	ent (3)
MGT229	Management & Leadership (3)	
MGT251	Human Relations In Business (3)	
MGT276	Personnel/Human Resources in Mar	nagemt (3)
MKT271	Principles of Marketing (3)	
Marketing		Credits: 15
+ CIS235	e-Commerce (3)	
IBS102	International Marketing (3)	
MKT101	Introduction to Public Relations (3)	
MKT263	Advertising Principles (3)	
MKT271	Principles of Marketing (3)	
Small Busines	s	Credits: 15
MGT253	Owning & Operating a Small Busine	ess (3)
MKT267	Principles of Salesmanship (3)	
MKT271	Principles of Marketing (3)	
SBS213	Hiring and Managing Employees (1	
SBS214 SBS220	Small Business Customer Relations	
SBS220 SBS230	Internet Marketing for Small Busine Financial & Tax Mgt for Small Bus.	
3 <b>D</b> 3230	Thiancial & Tax Wigt for Small Bus.	(2)
	DUCATION REQUIREMENTS:	Credits: 24-27
CORE:		Credits: 15-17
First Year Com		6
	ed general education course from the omposition area.	
Oral Communi COM 100 or	cation COM 110 or +COM 225 or +COM 2	230

Critical Readi Any approved area.	ng I general education course from the	3 Critical Reading
Mathematics Any approved	general education course from the M	3-5 athematics area.
DISTRIBUTION	ON:	Credits: 9-10
2 11	Fine Arts ed general education course from the & Fine Arts area.	2-3
Natural Science Any approv Natural Science	ed general education course from the	4
Social & Beha IBS109 SBU200	vioral Sciences Cultural Dimension for Int'l Busine Society & Business (3)	3 ss (3) OR

# INTERNATIONAL BUSINESS

CERTIFICATE OF COMPLETION: 5740

#### IMPORT/ EXPORT TRADE

19-20 CREDITS

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite.

REQUIRED C	COURSES: C	redits:	16-17
IBS 102	International Marketing		2
IBS 108	Basics of Import/Export Operations		2
IBS 110	International Payments and Collections	S	1
IBS 111	Risk Management and Loss Control		1
IBS 112	Export Licensing and Regulations		1
IBS 113	United States Customs and Duties		1
IBS 114	Int'l Transportation and Distribution Sy	stems	1
IBS 121	Export Case Studies		2
Choose one co	urse from the following IBS courses:		2
IBS 150	Mexico, Central & South America: Int	:'1	
	Business Environment (2)		
IBS 151	Western Europe: International Busines	ss Env.	(2)
IBS 152	Japan: International Business Environ	ment (2	2)
IBS 153	Central & Eastern Europe: Int'l Busines	ss Env.	(2)
IBS 154	Pacific Rim Countries: Int'l Business I	Env. (2)	)
Any Foreign L	anguage Course:		3-4
(Prefixes: ARI	B, CHI, FRE, GER, GRK, HEB, ITA, JP1	N, POR	, RUS,
SPA)			

RESTRICTED	ELECTIVES:	Credits:	3

MGT 135	Purchasing Management (3)
MGT 175	Business Organization and Management (3)
MGT 253	Owning and Operating a Small Business (3)

CERTIFICATE OF COMPLETION: 5742

### INTERNATIONAL BUSINESS

30-32 CREDITS

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite.

each course in the Required Courses area. "+" indicates prerequisite.			
REQUIRED COURSES: Credits: 3			30-32
+ CIS 235	e-Commerce		3
GBS 151	Introduction to Business		3
IBS 101	Introduction to International Business	•	3
IBS 102	International Marketing		2
IBS 104	International Finance		1
IBS 105	International Law		2
IBS 108	Basics of Import/Export Operations		2
IBS 109	Cultural Dimension for International	Busines	s 3
IBS 121	Export Marketing Case Studies		2
MGT 175	Business Organization & Managemen	ıt	3
(ie: SPA101 &	Language Course Sequence: 2 102 or SPA101AA & 102AA) (Prefixe RK, HEB, ITA, JPN, POR, RUS, SPA)	es: ARI	6-8 B, CHI,

# **JOURNALISM**

CERTIFICATE OF COMPLETION: 5466

### **JOURNALISM**

18 CREDITS

DESCRIPTION: The Certificate of Completion in Journalism prepares students to work in the publishing industry whether they have a bachelor's degree in another discipline or are just beginning their career path in journalism. The CCL includes journalism courses required by journalism schools throughout the state and country and requires an internship in journalism and a juried portfolio of published articles to complete the certificate.

REQUIRED CO	OURSES	Credits:	15
+ ENG 101	First-Year Composition		3
ENG 235	Magazine Article Writing (3) OR		
+ JRN 234	Feature Writing (3)		3
+ JRN 201	News Writing		3
+ JRN 240AB	Journalism Internship		2
JRN 298AA	Special Projects: Portfolio of Published	Clips	1
+ MCO 120	Media & Society		3
RESTRICTED	ELECTIVES:	Credits	: 3
JRN 125	Photo Editing (3)		
JRN 133	Development of Small Publications (3)		
+ JRN 212	Broadcast Writing (3)		
JRN 215	News Production (3)		
		_	

### **MEDIA ARTS**

CERTIFICATE OF COMPLETION: 5881

# MEDIA ARTS: COMPUTER ART ILLUSTRATION

16 CREDITS

DESCRIPTION: This program is designed for the student who wishes to develop an area of specialization in Computer Art/Illustration. The program acquaints the student with art principles and assists the students in developing their abilities to solve design and compositional problems as related to the art. It allows for the development of an individual's personal interest in this area, prepares students for employment, and upgrades skills of those already employed in this field. Employment opportunities are included in multimedia such as illustrator, artist, designer, paste-up artist, free-lance artist-designer, graphic design artist, or multimedia artist.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses within the program. "+" indicates prerequisite.

REQUIRED (	COURSES	Credits: 16
ART 100	Intro to Computer Graphic Art	1
ART 111	Drawing I	3
ART 116	Life Drawing I	3
+ ART 169	Two Dimensional Computer Design	3
+ ART 173	Computer Art (3) OR	
+ ART 177	Computer-Photographic Imaging (3)	3
+ ART 289	Computer Illustration	3

# MICROSOFT RELATED PROGRAMS

CERTIFICATE OF COMPLETION: 5473

# MICROSOFT DESKTOP SUPPORT TECHNOLOGY

18-19 CREDITS

DESCRIPTION: The CCL in Microsoft Desktop Support Technology is designed to provide training to work in an entry-level computer maintenance and help-desk position. Students will develop the skills to successfully troubleshoot desktop environments running on the Microsoft Windows operating system. Courses in the program also help to prepare for the Microsoft Certified Desktop Support Technician (MCDST) examinations.

JOB DESCRIPTION: A Microsoft Desktop Support Technician will be required to perform various tasks such as end user support including installing, configuring, managing and troubleshooting Microsoft desktop operating systems and applications either at a call center, Help Desk, or in his/her own computer support business. PROGRAM NOTES: Students must earn a grade of "C" or better for all required courses within the program. "+" indicates course has prerequisite and/or corequisites.

#### PROGRAM PREREQUISITES Credits: 2

Note: In lieu of the following two courses, students with experience in the information technology field may meet these program prerequisites with the permission of the instructor.

with the perims	sion of the instructor.	
BPC/CIS121	AB MS-DOS Operating System	1
CIS102	Interpers. & Cust. Service Skills for IT Prof.	1
REQUIRED CO	OURSES: Credits:	18-19
BPC 110	Computer Usage and Applications (3) OR	
CIS 105	Survey of Computer Information Systems (3)	3
+ BPC 170	Computer Maintenance I: A+ Prep	3
+ CIS 190	Intro. to Local Area Networks (3) OR	
+ CNT 140	Cisco Networking Fundamentals (4) OR	
MST 140	Microsoft Networking Essentials (3)	3-4
+ MST 141	Support MS Windows Client Operating Syst	3
+ MST 142	Support Applications on MS Windows	
	Client Operating Systems	3
MST 150XP	Microsoft Windows XP Professional	3

CERTIFICATE OF COMPLETION: 5841

### MICROSOFT PRODUCT SPECIALIST

13-15 CREDITS

DESCRIPTION: This program prepares students for industry-recognized certification. The curriculum is taught by Microsoft Certified Professionals. The Certificate of Completion in Microsoft Product Specialist provides training for an entry-level position working with Windows networks. Knowledge and skills are developed to install, configure, customize, optimize, and troubleshoot Windows servers and Windows client workstations. Courses in the program also help prepare for Microsoft Certified Product Specialist and Microsoft Certified Systems Engineer examinations.

PROGRAM NOTES: Students must earn a grade of "C" or better for all required courses within the program. "+" indicates course has prerequisite and/or corequisites.

#### PROGRAM PREREQUISITES Credits: 3

CIS 105 Survey of Computer Information Systems (3)
OR Permission of Department or Division

### REQUIRED COURSES: Credits: 13-15

	DDC/CIC 121	AD MC DOC Operating Creatern	1
	DPC/CIS 1217	AB MS-DOS Operating System	1
+	BPC 170	Computer Maintenance I: A+ Prep	3
+	CIS 190	Intro. to Local Area Networks (3) OR	
+	CNT 140	Cisco Networking Fundamentals (4) OR	
	MST 140	Microsoft Networking Essentials (3)	3-4
+	MST 150++	any MST150 module	3
+	MST 152++	any MST152 module	3-4

CERTIFICATE OF COMPLETION: 5843

#### MICROSOFT SYSTEMS ENGINEER

32-33 CREDITS

DESCRIPTION: The Certificate of Completion in Microsoft Systems Engineer provides training for an intermediate- to supervisory-level position working with Windows networks. The program develops skills to install, configure, customize, optimize, and troubleshoot Windows servers, Windows client workstations and Microsoft Backoffice products. The courses in the program also help to prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSE) examinations. The curriculum is taught by Microsoft Certified Professionals.

JOB DESCRIPTION: A Microsoft Systems Engineer will be required to perform various tasks such as developing a local area network, installing and configuring software, creating and managing user and group accounts, analyzing and optimizing system performance, troubleshooting system and printing problems, training end users, and working as a system administrator.

PROGRAM NOTES: Students must earn a grade of "C" or better for all courses required within the program. "+" indicates course has prerequisite and/or corequisites. "++" indicates any module. Overall program minimum GPA = 2.00.

#### PROGRAM PREREQUISITES: Credits: 3

CIS 105 Survey of Computer Information Systems (3) OR permission of department or division

REQUIRED COURSES:	Credits: 32-33
KEQUIKED COUKSES:	Credits: 32-33

1AB MS-DOS Operating System	1
Computer Maintenance I: A+ Prep	3
Intro. to Local Area Networks (3) OR	
Cisco Networking Fundamentals (4) OR	
Microsoft Networking Essentials (3)	3-4
any MST150 course	3
any MST152 course	4
Implementing Windows Ntwk Infrastructu	re 3
Implementing Windows Directory Services	s 3
Managing Windows Network Environmen	t 3
Microsoft SQL Server Administration	3
Designing a Microsoft Windows 2000	
Directory Services Infrastructure (3) OR	
Designing Windows Network Security (3)	3
Designing Windows Network Infrastructur	re 3
	Computer Maintenance I: A+ Prep Intro. to Local Area Networks (3) OR Cisco Networking Fundamentals (4) OR Microsoft Networking Essentials (3) any MST150 course any MST152 course Implementing Windows Ntwk Infrastructu Implementing Windows Directory Services Managing Windows Network Environmen Microsoft SQL Server Administration Designing a Microsoft Windows 2000 Directory Services Infrastructure (3) OR

ASSOCIATE IN APPLIED SCIENCE: 3778

# MICROSOFT NETWORKING TECHNOLOGY

62 CREDITS

DESCRIPTION: The Associate in Applied Science in Microsoft Networking Technology program develops skills to implement a network infrastructure and install, configure, monitor, optimize, and troubleshoot Windows server and Windows client workstations. Courses in the program also help to prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSE) examinations. The curriculum is taught by Microsoft Certified Professionals.

JOB DESCRIPTION: A Microsoft Networking administrator will be required to perform various tasks such as developing a local area network, installing and configuring software, creating and managing user and group accounts, analyzing and optimizing system performance, troubleshooting system and printing problems, interoperating with various operating systems, and working as a system administrator.

PROGRAM NOTES: Students must earn a grade of "C" or better for all required courses within the program. "+" indicates course has prerequisite and/or corequisites. "++" indicates any module.

# PROGRAM PREREQUISITE: Credits: 3 CIS 105 Survey of Computer Information Systems 3 OR permission of department or division.

REQUIRED C	OURSES: Credits:	24-25
-	1AB MS-DOS Operating System	1
+ BPC 170	Computer Maintenance I: A+ Prep	3
CIS 102	Interpersonal & Customer Service Skills	·
015 102	for IT Professionals	1
CIS126DA	UNIX Operating System (3) OR	
CIS126AA	UNIX Operating System: Level I (1) AND	
+ CIS126BA	UNIX Operating System: Level II (1) AND	
+ CIS126CA	UNIX Operating System: Level III (1) OR	-
CIS126DL	Linux Operating System (3) OR	
CIS126AL	Linux Operating System I (1) AND	
+ CIS126BL	Linux Operating System II (1) AND	
+ CIS126CL	Linux Operating System III (1)	3
+ CIS 190	Introduction to Local Area Networks (3) OR	
CNT 140	Cisco Networking Basics (4) OR	
MST 140	Microsoft Networking Essentials (3)	3-4
+ MST 150++	Microsoft Windows Professional (any course)	3
+ MST 152++	Microsoft Windows Server (any course)	4
+ MST 155	Implementing Windows Network Infrastr.	3
+ MST 157	Implementing Windows Directory Services	3
RESTRICTED	ELECTIVES: Credi	ts: 13

Computer Usage & Applications (3) OR

Survey of Computer Information Systems (3)

For MST150++ and MST152++, select a different MS Windows

version than the one selected for Required Courses.

**BPC** 110

CIS 105

+ BPC 171	Recycling Used Computer Technology	1-3
+ BPC 270	Microcomputer Maintenance II	3
+ CIS 150	Programming Fundamentals	3
+ CIS 159	Visual Basic Programming I	3
+ CIS 162AB	C++: Level I (3) OR	
+ CIS 162AC	Visual C++: Level I (3)	3
+ CIS 280++	Any CIS280 Current Topics in Comput	ing 1-3
	select no more than four (4) credits co c, CIS290AA, AB, AC and CIS296WA-V	
+ CIS 282++	Volunteerism for Computer Info System Service Learning Experience (any mod	ns: A
OR		(1.2) OB
+ CIS 290++ + CIS 296++	Comp. Info. Syst. Internship any module (1-4)	
+ CNT 150	Cisco Networking Router Technologies	3
+ MST 141	Supporting MS Windows Desktop Ope	
+ MST 142	Supporting Appl. on MS Windows Des Operating Systems	ktop 3
+ MST 150++	Microsoft Windows Professional (any o	
+ MST 152++	Microsoft Windows Server (any course	,
+ MST157	Implementing Windows Directory Serv	
+ MST 232	Managing a Windows Network Environ	
+ MST 242	Microsoft Exchange Server	4
+ MST 244	Microsoft SQL Server Administration	3
+ MST 252	Microsoft Windows Network Upgrade	3
+ MST 253	Designing a Microsoft Wind	ows 2000
	Directory Services Infrastructure	3
+ MST 254	Microsoft SQL Server Design & Imple	m. 3
+ MST 255	Designing Windows Network Infrastruc	cture 3
+ MST 259	Designing Windows Network Security	3
+ MST 298++	Special Projects any module	1-3
GENERAL ED	UCATION REQUIREMENTS	Credits: 25
CORE:		Credits: 15
First-Year Com	position	6
+ ENG101	First Year Composition (3) AND	
+ ENG102	First Year Composition (3) OR	
+ ENG107 + ENG108	First Year Composition for ESL (3) AN First Year Composition for ESL (3)	D
	d general education course in the	3
Oral Commu	nication area.	
Critical Reading	g	3
+ CRE101	Critical & Evaluative Reading I (3) OR	
	Equivalent as indicated by assessment	
Madhan		2
Mathematics		3
Any approved g	general education course from the Mathe	ematics area.
DISTRIBUTIO	N:	Credits: 10
Humanities & I	Fine Arts	3
Any approve	d general education course from the & Fine Arts area.	-

Social & Behavioral Sciences	3
Any approved general education course from the	
Social & Behavioral Sciences area.	
Natural Science	4
Natural Science Any approved general education course from the	4

# MICROSOFT APPLICATIONS DEVELOPMENT

JOB DESCRIPTION: Microsoft Applications Developers design and develop custom solutions to build Web-based, distributed, and commerce applications by using Microsoft's products, such as Microsoft SQL™ Server, Microsoft Visual Studio, and Microsoft Component Services. Job tasks include analyzing business requirements, defining the technical architecture, designing a solution, coding and implementing a solution, testing the solution, deploying the solution, and maintaining the solution.

JOB OPPORTUNITIES: Career opportunities include systems architect, systems analyst, programmer, e-commerce administrator, database administrator, trainer, and contractor. There is a critical shortage of Microsoft developers as there are approximately 22,000 MCSDs worldwide. The growth of e-commerce and use of Microsoft products will increase the demand for qualified solutions developers. Average salary in the southwest region is \$78,500.

Note: PVCC doesn't offer all courses needed for the Microsoft CCL and AAS degree. Courses needed to complete the program(s) may also be available at CGCC, EMCC, GCC, GWC, PC, SCC and SMC.

CERTIFICATE OF COMPLETION: 5838

# MICROSOFT APPLICATIONS DEVELOPMENT

22 CREDITS

DESCRIPTION: The Certificate of Completion in Microsoft Applications Development is designed to provide training for developers who develop, deploy, and maintain applications and components using Visual Studio: Visual Basic (VB), C++, and Structured Query Language (SQL). It also provides training for Microsoft Certified Application Developer (MCAD) certification examinations. The Microsoft Certified Application Developer (MCAD) credential is appropriate for professionals who use Microsoft technologies to develop and maintain department-level applications, components, Web or desktop clients, or back-end data services or work in teams developing enterprise applications.

PROGRAM NOTES: Students entering the Microsoft Applications Development program often come with background or experience in the computer programming area. Students must consult with a program advisor as the program prerequisites may not be necessary and may be waived as requirements to the program. Students must earn a grade of "C" or better for all courses required within the program. Overall program minimum G.P.A. = 2.00. + indicates course has prerequisites

and/	or	corea	uisites.
and	O1	COLCY	uisites.

PROGRAM PI CIS 105 CRE101	REREQUISITES: Credit: Survey of Computer Information Systems Critical and Evaluative Reading I (3) OR Equivalent as indicated by assessment (3) OR Permission of Department or Division	s: 6 3 3
	BDA Internet/Web Development Level I (3) OR	
	BAA Internet/Web Development Level I-A(1) AN BBA Internet/Web Development Level I-B(1) AN	
+ BPC/CIS133	3CA Internet/Web Development Level I-C (1)	3
CIS102	Interpersonal and Customer Service Skills for IT Professionals	1
+ CIS159	Visual Basic Programming I	3
+ CIS259	Visual Basic Programming II	3
+ CIS164AG	Oracle: Data Modeling and Relational Database Design (2) OR	
+ MST146	Data Modeling & Relatnal Dbase Design (2)	2
+ MST172 + MST176 + MST254	Visual Basic .NET Web Application Dev Visual Basic .NET XML Web Services Dev Microsoft SQL Server Design & Implement.	4 3 3

RESTRICTED ELECTIVES: None

ASSOCIATE IN APPLIED SCIENCE: 3838

# MICROSOFT APPLICATIONS DEVELOPMENT

60-62 CREDITS

DESCRIPTION: The Associate in Applied Science in Microsoft Applications Development is designed to provide training for developers who develop, deploy, and maintain applications and components using Visual Studio: Visual Basic (VB), C++, and Structured Query Language (SQL). It also provides training for Microsoft Certified Application Developer (MCAD) certification examinations. The MCAD credential is appropriate for professionals who use Microsoft technologies to develop and maintain department-level applications, components, Web or desktop clients, or back-end data services or work in teams developing enterprise applications. The program of study combines the technical aspects of the certificate program with selected general education courses in the area of English, communications, mathematics, humanities, social and behavioral sciences, and the natural sciences.

Microsoft Certified Application Developers are professionals who use Microsoft technologies to develop and maintain department-level applications, components, Web or desktop clients, or back-end data services or work in teams developing enterprise applications. Career opportunities include programmer, programmer analyst, and software developer.

PROGRAM NOTES: Students entering the Microsoft Applications Development program often come with background or experience in the computer programming area. Students must consult with a program advisor, as the program prerequisites may not be necessary and may be waived as requirements to the program. Students must earn a grade of "C" or better for all courses required within the program. Overall program minimum G.P.A. = 2.00. + indicates course has prerequisites and/or corequisites. ++ indicates any module.

and/or corequis	sites. ++ indicates any module.	
PROGRAM PI	REREQUISITES	Credits: 6
CIS 105	Survey of Computer Information Syste	ms 3
+ CRE101	Critical and Evaluative Reading (3) OF	
	Equivalent as indicated by assessment	OR
	Permission of Department or Division	
REQUIRED C	OURSES:	Credits: 22
	BDA Internet/Web Development Level I	OR
	3AA Internet/Web Development Level I	
	BBA Internet/Web Development Level I	
	3CA Internet/Web Development Level I	
CIS102	Interpersonal & Cust. Service Skills for	r IT Prof. 1
+ CIS159	Visual Basic Programming I	3
+ CIS259	Visual Basic Programming II	3
+ CIS164AG	Oracle: Data Modeling &	
	Relational Database Design (2) OR	
+ MST146	Data Modeling & Relational Database	
+ MST172	Visual Basic .NET Web Application De	
+ MST176	Visual Basic .NET XML Web Services	
+ MST254	Microsoft SQL Server Design and Imp	lementn 3
RESTRICTED	ELECTIVES:	Credits: 16
+ CIS119DO	Introduction to Oracle: SQL	3
+ CIS150	Programming Fundamentals	3
+ CIS162++	Any CIS162 course	3
+ CIS163AA	Java Programming: Level I	3
+ CIS190	Introduction to Local Area Networks (3	3) or
CNT140	Cisco Networking Basics (4) or	
MST140	Microsoft Networking Essentials (3)	3-4
+ CIS225AB	Object-Oriented Analysis and Design	3
+ CIS235	e-Commerce	3
Students may	select no more than four (4) credits co	mbined from
	and CIS296WA-WD courses.	
+ CIS290A+	Computer Information Systems Interns	hip
	(any module) (1-3) OR	
+ CIS296W+	Coop. Education (any module) (1-4)	1-4
+ MST150++	any MST150 course	3
+ MST152++	any MST152 course	4
+ MST244	Microsoft SQL Server Administration	3
MST298++	Special Projects (Any module)	1-3
GENERAL ST	UDIES REQUIREMENTS C	redits: 22-24
CORE:		
Credits: 12-14		
First-Year Com	position	6
+ ENG 101	First-Year Composition (3) AND	
+ ENG 102	First-Year Composition (3) OR	
+ ENG 107	First-Year Composition for ESL (3) AN	ND
+ ENG 108	First-Year Composition for ESL (3)	
Oral Communi	cation	3
	general studies course in the Oral Co	
area.	5 Studies Course in the Old Co	

Critical Reading + Met by CRE101 in Program Prerequisites		0
Mathematics	;	3-5
+ MAT 120 Intermediate Algebra (5) OR		
+ MAT 121 Intermediate Algebra (4) OR		
+ MAT 122 Intermediate Algebra (3) OR		
Equivalent as indicated by assessment or		
Satisfactory completion of a higher level math course		
DISTRIBUTION:	Credits:	10

DISTRIBUTION:	Credits:	10
Humanities & Fine Arts Any approved general studies course in the Humanities & Fine Arts area.		3
Social and Behavioral Sciences Any approved general studies course in the Social and Behavioral Sciences area.		3

Natural Sciences 4
Any approved general studies course in the Natural Sciences area.

# MICROSOFT SYSTEMS ADMINISTRATION

JOB DESCRIPTION: The Microsoft Certified Systems Administrator (MCSA) will be required to implement, to manage, and to troubleshoot networks containing messaging services, file and print servers, and firewalls in addition to configuring Internet access, to enabling remote access for users, and to managing client computers.

CERTIFICATE OF COMPLETION: 5852

# MICROSOFT SYSTEMS ADMINISTRATION

20-21 CREDITS

DESCRIPTION: The Certificate of Completion in the Microsoft Systems Administration provides training for professionals who implement, manage, and troubleshoot existing network and system environments based on current Microsoft Server operating systems. Courses in the program also prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSW) examinations.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite. "++" indicates any module. Overall required GPA: 2.00

#### PROGRAM PREREQUISITES:

CIS 105 Survey of Computer Information Systems (3) OR Permission of Department or Division

REQUIRED C	OURSES:	Credits:	20-21
BPC/CIS 12 + BPC 170	1AB MS-Dos Operating System Computer Maintenance I: A+ Prep		1 3
+ CIS 190 CNT 140 MST 140	Intro. to Local Area Networks (3) OR Cisco Networking Fundamentals (4) Microsoft Networking Essentials (3)		3-4
	any MST150 course any MST152 course Implementing Windows Network Info Managing a Windows Network Envir		3 4 re 3 3

RESTRICTED ELECTIVES: None

# MIDDLE MANAGEMENT BUSINESS LEADERSHIP

DESCRIPTION: The purposes of the program in management are 1) to train students for full-time employment in supervisory positions upon graduation; 2) to upgrade the training for personnel already involved in supervisory positions; 3) and/or to provide additional training in specific areas as needed for those already employed in management positions. Students completing the program should find rewarding careers in sales/merchandising, wholesaling, finance, industry, business ownership, and the expanding services industries.

Students currently employed should consult with an advisor about the advantages of Cooperative Education work programs.

CERTIFICATE OF COMPLETION: 5072

### MIDDLE MANAGEMENT

28-30 CREDITS

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "++" indicates any module.

R	REQUIRED COURSES: Credits:		28-30	
	ACC 111	Accounting Principles I		3
	BPC 110 CIS 105	Computer Usage & Applications Survey of Computer Info. System	. ,	3
	GBS 151	Introduction to Business		3
+	GBS 233	<b>Business Communication</b>		3
	MGT 175	Business Organization & Manage	ement	3
	MGT 253	Owning & Operating A Small Bu	isiness	3
	MGT 229	Management and Leadership I		3
	MGT 251	Human Relations in Business		3
	MGT 296++	Cooperative Education (any mod	ule)	1-3
	MKT 271	Principles of Marketing		3

# **MUSIC BUSINESS**

CERTIFICATE OF COMPLETION: 5258

#### **MUSIC BUSINESS**

40 CREDITS

DESCRIPTION: The CCL (Certificate of Completion) in Music Business program is an innovative curriculum designed to prepare students for today's music industry. The certificate and degree with a music business emphasis are designed for both the performing musician and the business student with limited performing experience. This program combines a flexible curriculum with an emphasis in business and marketing, along with music industry related courses and experiences.

PROGRAMREQUIREMENTS: "+" indicates course has prerequisites and/or corequisites. "++" indicates any module. Students must earn a grade of "C" or better in all courses within the program.

R	EQUIRED CO	OURSES:	Credits:	37
	ACC109	Accounting Concepts (3) OR		
	ACC111	Accounting Principles I (3)		3
	BPC128	Introduction to Desktop Publishing		1
	CIS131AA	Doing Business on the Internet		1
+	COM259	Communication in Business and Profess	sions	3
	GBS151	Introduction to Business		3
	MGT253	Owning and Operating a Small Business	8	3
	MKT271	Principles of Marketing		3
	MTC101	Introduction to Music Theory OR		3
		Higher Level		
	MUC109	Music Business: Merchandising and the	Law	3
	MUC110	Music Business: Recording and Mass M	ledia	3
+	MUC111	Digital Audio Workstation I (DAW I)		3
	MUC195	Studio Music Recording I		3
	MUC295AA	Self Promotion for Music		1
+	MUC297AB	Music Internship		2
	SBS230	Financial and Tax Management for		2
		Small Business		

RESTRICTED ELECTIVES:	Credits: 3
MHL+++++	
Note: Any approved MHL prefixed course	3

Associate of Applied Science: 3017

#### **MUSIC BUSINESS**

65 CREDITS

DESCRIPTION: The AAS (Associate in Applied Science) in Music Business program is an innovative curriculum designed to prepare students for today's music industry. The certificate and degree with a music business emphasis are designed for both the performing musician and the business student with limited performing experience. This program combines a flexible curriculum with an emphasis in business and marketing, along with music industry related courses and experiences.

PROGRAMREQUIREMENTS: "+" indicates course has prerequisites and/or corequisites. "++" indicates any module. Students must earn a grade of "C" or better in all courses within the program.

REQUIRED C ACC109		Credits: 37
	Accounting Concepts (3) OR	2
ACC111	Accounting Principles I (3)	3
BPC128	Introduction to Desktop Publishing	1
CIS131AA	Doing Business on the Internet	1
+ COM259	Communication in Business and Profe	
GBS151	Introduction to Business	3
MGT253	Owning and Operating a Small Busine	
MKT271	Principles of Marketing	3
MTC101	Introduction to Music Theory OR	3
	Higher Level	
MUC109	Music Business: Merchandising & the	
MUC110	Music Business: Recording & Mass M	
+ MUC111	Digital Audio Workstation I (DAW I)	3
MUC195	Studio Music Recording I	3
MUC295A	A Self Promotion for Music	1
+ MUC297AI	B Music Internship	2
SBS230	Financial and Tax Management for	2
	Small Business	
DECEDIOTES	NEW ECONOMICS	G 11: 0
-	DELECTIVES:	Credits: 3
MHL+++	Any approved MHL prefixed course	3
GENERAL EI	DUCATION REQUIREMENTS:	Credits: 25
CORE:		Credits: 15
First-Year Cor	nposition	6
+ ENG101	First-Year Composition (3) AND	
+ ENG102	First-Year Composition (3)	
Oral Commun	ication	3
	general education course in the Oral C	
Area	general education course in the oral e	ommunication
Critical Readin		3
Any approved	general education course in the Critical	Reading Area
Mathematics		3
Any approved	general education course in the Mathen	natics Area
DISTRIBUTIO	ON	Credits: 10
Humanities &	Fine Arts	3
	general education course in the Human	nities and Fine
Arts Area	general education course in the Human	ancies una i me
Social and Bel	navioral Sciences	3
	general education course in the Social a	and Behavioral
Sciences Area	B Machine Course in the Social C	201111111111111111111111111111111111111
		4
Natural Science		4
Any approved	general education course in the Natural	Sciences Area

### **NURSING**

DESCRIPTION: The Nursing Program is available at eight of the Maricopa Community Colleges. The nursing pathway provides multiple exit points for employment that begins with Nurse Assisting and continues to the Practical Nurse certificate and Registered Nurse degree program. The Nursing Program provides eligibility for students seeking certification and licensure through the Arizona State Board of Nursing. Licensing requirements are the exclusive responsibility of the Arizona State Board of Nursing.

The Nursing Program is approved by the Arizona State Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway 33rd Floor, New York, New York 10006, 212.363.5555, ext 153.

#### WAIVER OF LICENSURE/CERTIFICATION GUARANTEE:

Admission or graduation from the Nursing Program does not guarantee obtaining a license or certificate to practice nursing. Licensure and certification requirements and the subsequent procedures are the exclusive right and responsibility of the Arizona State Board of Nursing. Students must satisfy the requirements of the Nurse Practice Act: Statutes, Rules and Regulations, independently of any college of school requirements for graduation.

Pursuant to A.R.S. § 32-1606(B)(17), an applicant for professional or practical nurse license by examination is not eligible for licensure if the applicant has any felony convictions and has not received an absolute discharge from the sentences for all felony convictions. The absolute discharge must be received five or more years before submitting this application. If you cannot prove that the absolute discharge date is five or more years, the Board cannot process your application.

All nurse and nursing assistant applicants for certification and licensure will be fingerprinted to permit the Department of Public Safety to obtain state and federal criminal history information. If there is any question about eligibility for licensure or certification, contact the nursing education consultant at the Arizona State Board of Nursing (602-331-8111). All students must submit a copy of a fingerprint clearance card with their application for the Maricopa Community College District Nursing Program.

HEALTH DECLARATION: It is essential that Nursing students be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to lift patients, stand for several hours at a time and perform bending activities. The clinical nursing experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties impacting patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to making application.

# HEALTH & SAFETY REQUIREMENTS FOR THE NURSING PROGRAM:

- Students must submit a completed Health and Safety Documentation Checklist and maintain current status throughout the program.
- Students must submit a CPR card for Health Care Provider and maintain current status throughout the program.

- Health Declaration Form signed by a licensed health care provider.
- 4. Negative urine drug screen.

#### GRADE REQUIREMENTS:

Student must obtain a "C" grade or better or pass in "P/Z" graded courses in all courses in program.

#### COURSE FEE INFORMATION:

Please see class schedule for information regarding course fees.

#### UNIVERSITY STUDENT TRANSFERS:

For students planning a University Program. Students who are planning to earn the Bachelor of Science in Nursing may obtain their prerequisite courses at the Maricopa Community Colleges. For information on courses that meet requirements for admission into a baccalaureate program, please contact a program advisor.

CERTIFICATE OF COMPLETION: 5963

### **NURSE ASSISTING**

8 CREDITS

DESCRIPTION: The Maricopa Community College District Nursing Program (MCCDNP) is available at eight Maricopa Colleges. The nursing pathway provides multiple exit points for employment that begins with Nurse Assisting and continues to the Practical Nurse certificate and Registered Nurse degree program. The Nursing Program provides eligibility for students seeking certification and licensure through the Arizona State Board of Nursing. Licensing requirements are the exclusive responsibility of the Arizona State Board of Nursing. The MCCCD Nursing Program is approved by the Arizona State Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway 33rd Floor, New York, New York 10006, 212.363.555, ext. 153.

THE NURSE ASSISTING PATHWAY: is designed to prepare students to complete the Nurse Assistant Certification through the Arizona State Board of Nursing to practice in a health care agency as a certified nurse assistant. Completion of the nurse assistant program of study provides job ready skills as a nursing assistant. Students may apply to the Nursing Program after completing the prerequisite courses and admission requirements.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses within the program. "+ " indicates course has prerequisites and/or corequisites

ADMISSION CRITERIA: Application and acceptance into the program, High School graduate or GED, current Health Care Provider CPR Card required before beginning courses. All students must submit a copy of a fingerprint clearance card with their application for the Maricopa Community College District Nursing Program.

PROGRAM PREREQUISITES: None.

#### REQUIRED COURSES:

Credits: 8

HCC130 Fundamentals in Health Care Delivery (3) OR HCC130AA Health Care Today (0.5) AND

HCC130AB Workplace Behaviors in Health Care (0.5) AND

	HCC130AC	Personal Wellness and Safety (0.5) AND	
	HCC130AD	Communication and Teamwork in	
	Health Care	Organizations (0.5) AND	
	HCC130AE	Legal Issues in Health Care (0.5) AND	
	HCC130AF	Decision Making in the Health Care Setting (0.5)	3
	HCC145AA	Medical Terminology for Health Care Workers I	1
+	NUR156	Nurse Assisting	2
+	NUR157	Nurse Assisting Lab	2
	_		

ASSOCIATE OF APPLIED SCIENCE: 3812

### **NURSING**

69-82 CREDITS

DESCRIPTION: The Nursing Program is available at eight of the Maricopa Community Colleges. The nursing pathway provides multiple exit points for employment that begins with Nurse Assisting and continues to the Practical Nurse certificate and Registered Nurse degree program. The Nursing Program provides eligibility for students seeking certification and licensure through the Arizona State Board of Nursing. Licensing requirements are the exclusive responsibility of the Arizona State Board of Nursing.

The Nursing Program is approved by the Arizona State Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC), 61 Broadway 33rd Floor, New York, New York 10006, 212.363.5555, ext 153.

PROGRAM REQUIREMENTS: Students must earn a grade of "C" or better in all courses within the program. "+" indicates course has prerequisites and/or corequisites.

#### REGISTERED NURSE PATHWAY

Associate in Applied Science Degree in Nursing Program

The Associate Applied Science (AAS) degree in Nursing graduate is eligible to apply for licensure as a Registered Nurse (RN). The RN is educated as a generalist who delivers health care to clients and family groups and has competencies related to the art and science of nursing. The RN may be employed in a variety of acute, chronic and community based health care settings. The AAS degree in Nursing provides the graduate with an educational foundation for articulation into the university setting.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses within the program. "+" indicates course has prerequisites and/or corequisites

ADMISSION CRITERIA: High School diploma or GED, application and acceptance into the nursing program. A reading score of 50% or higher and a math score of 50% or higher on the Nursing Entrance Exam (NET) must be achieved for admission. Retests can be taken only once in a 60 day period. The entire Nursing Entrance Exam (NET) must be taken on each retest. The test can be taken no more than 3 times in a 12-month period.

The Health Education Systems, Inc. (HESI) test will be administered to all prospective advanced placement students seeking admission into Blocks 3 or 4. A score of 800 or higher is required in order to be granted advanced placement into either of these blocks. A score of

less than 800 will result in placement into either Block 1 or 2. The final decision rests with the Nursing Program Chair at the College to which the student is accepted.

All students must submit a copy of a fingerprint clearance card with their application for the Nursing Program.

PROGRAM PREREQUISITES:	Credits	$18_{-}31$

Area Note: The credit hour range is subject to change depending on the student's educational experience.

BIO156 BIO181 + BIO201 + BIO202 + BIO205 + CHM130 + CHM130LL	Introductory Biology for Allied Health (4 General Biology (Majors) I (4) OR One year of high school biology Human Anatomy and Physiology I Human Anatomy and Physiology II Microbiology Fundamental Chemistry (3) AND Fundamental Chemistry Laboratory (1) Cone year of high school chemistry	0-4 4 4 4	
+ CRE101	Critical and Evaluative Reading I (3) OR Equivalent by assessment	0-3	
+ ENG101 + ENG107	First-Year Composition OR First-Year Composition for ESL	3	
+ MAT120 + MAT121 + MAT122	Intermediate Algebra (5) OR Intermediate Algebra (4) OR Intermediate Algebra (3) OR Higher Level Math Course	3-5	
REQUIRED CO HCC145AA + NUR111 + NUR117 + NUR119 + NUR121 + NUR127 + NUR129 + NUR231 + NUR237 + NUR239 + NUR241 + NUR249 PSY101	Medical Terminology for Health Care Wo Nursing Process/Critical Thinking I Pharmacology & Medication Administrat Nursing Science I Nursing Process/Critical Thinking II Pharmacology & Medication Administrat Nursing Science II Nursing Process/Critical Thinking III Pharmacology & Medication Administrat Nursing Science III Nursing Science III Nursing Process/Critical Thinking IV Nursing Science IV Introduction to Psychology	ion I 2 5 4 ion II 2 5 4	
	ELECTIVES: None.		
	OUCATION REQUIREMENTS:	Credits: 5	
CORE:		Credits: 3	
First-Year Composition  Met by ENG101 OR ENG107 in Program Prerequisites area.  + ENG102 First-Year Composition (3) OR  ENG108 First-Year Composition for ESL (3) 3			
Oral Communication Waived.			
Critical Readin Met by CRE	g 101 in Program Prerequisites area.	0	

+ BIO205

Microbiology

Mathematics Met by MAT120, or MAT121, or MAT122 OR	
Higher Level Math Course in Program Prerequisites area.	0
DISTRIBUTION: Credits:	2
Humanities/Fine Arts Any approved course in the Humanities and Fine Arts area.	2
Natural Science Met by BIO201 and BIO202 in Program Prerequisites areas.	0
Social and Behavioral Sciences Met by PSY101 in Required Courses area.	0
CERTIFICATE OF COMPLETION: 5957	

PRACTICAL NURSING 44-57 CREDITS

DESCRIPTION: The Nursing Program is available at eight of the Maricopa Community Colleges. The nursing pathway provides multiple exit points for employment that begins with Nurse Assisting and continues to the Practical Nurse certificate and Registered Nurse degree program. The Nursing Program provides eligibility for students seeking certification and licensure through the Arizona State Board of Nursing. Licensing requirements are the exclusive responsibility of the Arizona State Board of Nursing.

PRACTICAL NURSE PATHWAY: Following completion of the practical nurse level program of study, the student is eligible to apply for licensure as a practical nurse. Licensed Practical Nurses (L.P.N.) are employed in acute, long-term, and community-based health care agencies under the direction of a registered nurse. Practical Nurses function within their legal scope of practice and use professional standards of care in illness care and health promotion activities for clients and families across the life span.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses within the program. "+" indicates course has prerequisites and/or corequisites.

ADMISSION CRITERIA: High School diploma or GED, application and acceptance into the nursing program. A reading score of 50% or higher and a math score of 50% or higher on the Nursing Entrance Exam (NET) must be achieved for admission. Retests can be taken only once in a 60 day period. The entire Nursing Entrance Exam (NET) must be taken on each retest. The test can be taken no more than 3 times in a 12-month period. All students must submit a copy of a fingerprint clearance card with their application for the Nursing Program.

#### PROGRAM PREREOUISITES:

Credits: 18-31 Area Note: The credit hour range is subject to change depending on the student's educational experience.

BIO156	Introductory Biology for Allied Health (4) OR	
BIO181	General Biology (Majors) I (4) OR	
	One year of high school biology	0-4
+ BIO201	Human Anatomy and Physiology I	4
+ BIO202	Human Anatomy and Physiology II	4

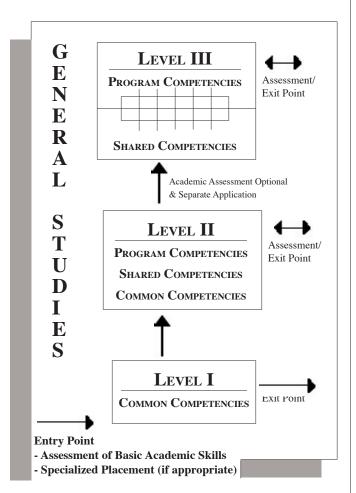
+ CHM130	Fundamental Chemistry (3) AND	7
+ CHM130LL	Fundamental Chemistry Laboratory (1) OR One year of high school chemistry	0-4
+ CRE101	Critical and Evaluative Reading I (3) OR Equivalent by assessment	0-3
+ ENG101	First-Year Composition OR	
+ ENG107	First-Year Composition for ESL	3
+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Higher Level Math Course	3-5
REQUIRED CO	OURSES: Credits:	26
HCC145AA	Medical Terminology for Health Care Workers I	1
+ NUR111	Nursing Process/Critical Thinking I	4
+ NUR117	Pharmacology & Medication Administration I	2
+ NUR119	Nursing Science I	5
+ NUR121	Nursing Process/Critical Thinking II	4
+ NUR127	Pharmacology & Medication Administration II	2
+ NUR129	Nursing Science II	5
PSY101	Introduction to Psychology	3

RESTRICTED ELECTIVES: None

### MARICOPA COMMUNITY COLLEGE DISTRICT HEALTH CARE INTEGRATED EDUCATIONAL SYSTEM (HCIES)

In collaboration and partnership with the health care community and its response to the dynamic changes occurring in the health care arena and health care professions' practice, the Maricopa Community Colleges integrated the curriculum of all allied health and nursing programs. All HCIES program pathways and educational offerings emphasize the achievement of relevant competencies and provide value to the individual, the employer, and the community. As a result, graduates of the various HCIES program pathways will meet the community's demand for a flexible, multi-skilled health care workforce that meets employer and consumer needs. Refer to individual college catalogs for specific health care program pathways.

For further information, <a href="http://healthcare.maricopa.edu/healthcarecourses.php">http://healthcare.maricopa.edu/healthcarecourses.php</a> is a comprehensive information source.



#### HCIES Assumption of Risk/Release of Liability

Most of the program pathways of the HCIES include a program of study in a clinical training environment which may contain exposures to risks inherent in patient-oriented educational experiences, such as but not limited to, bodily injury or communicable and infectious diseases. Students enrolling in clinical educational courses will be asked to sign a statement assuming all risks inherent in their coursework.

#### Use of Confidential Information

Students enrolled in program pathways of the HCIES will have learning experiences in a health care setting where they will have access to confidential information. Prior to beginning any clinical studies, the students will be asked to sign an agreement to adhere to the requirements of those clinical sites and applicable law, including the Health Insurance Portability and Accountability Act of 1996 (HIPAA).

#### HCIES College of Attendance

As the programs within the HCIES are integrated across the Maricopa Community College District, college of attendance requirements for the completion of the health care program pathways can be met through the completion of coursework taken at all the Maricopa Community Colleges and Skill Centers.

#### Requirement of Background Check

Students enrolled in most of the HCIES pathways will be in clinical learning experiences, working with children, elderly persons, and other vulnerable populations. Arizona State law and healthcare agency policies require evidence of clear background checks prior to entering such learning experiences. Students seeking admission to some health programs will be required to provide a current Fingerprint Clearance Card at the time of application to or enrollment in clinical courses, according to program guidelines. The Fingerprint Clearance Card must remain in effect for the duration of time of program enrollment. It is advised that students carry proof of the clearance at all times during any agency learning experience.

Note: Even though the Fingerprint Clearance Card is valid for 6 years, certain State licensing boards may require a new background check or clearance card upon request for State licensure or certification.

#### WAIVER OF LICENSURE/CERTIFICATE GUARANTEE

Many of the HCIES programs prepare graduates for application for State or National certificates or licenses. In some professions, such licensure and certification is required prior to employment or practice in the profession. Graduation from a HCIES program does not guarantee the receipt of a license or certificate to practice in the field of study.

# ORGANIZATIONAL LEADERSHIP

CERTIFICATE OF COMPLETION: 5731

#### ORGANIZATIONAL LEADERSHIP

17-18 CREDITS

DESCRIPTION: The Certificate of Completion (CCL) in Organizational Leadership provides students with knowledge and skills needed in today's changing workplace. The program develops leadership and communication skills and techniques for planning, directing, and evaluating business situations. This program also emphasizes procedures for effective allocation of time, money, materials, space, and personnel.

PROGRAM NOTES: "+" indicates course has prerequisites and/or corequisites. Students must earn a grade of "C" or better for each course in the "Required Courses" area

REQUIRED COURSES: Credits: 17-18

	BPC110 CIS105	Computer Usage and Application (3) OR Survey of Computer Information Systems (3)	3
	GBS110 MGT251	Human Relations in Business and Industry (3) OR Human Relations in Business (3)	3
+	GBS151 GBS233	Introduction to Business Business Communication	3
	MGT175 TQM240	Business Organization and Management (3) OR Project Managemt in Quality Organizations (2) 2	-3
	MGT101 MGT229	Techniques of Supervision (3) OR Management and Leadership I (3)	3

RESTRICTED ELECTIVES: None

# PROGRAM & SYSTEM ANALYSIS

JOB DESCRIPTION: Microsoft solutions developers design and develop custom solutions to build Web-based, distributed, and commerce applications by using Microsoft's product, such as Microsoft SQL Server, Microsoft Visual Studio, and Microsoft Component Services. Job tasks include analyzing business requirements, defining the technical architecture, designing a solution, coding and implementing a solution, testing the solution, deploying the solution, and maintaining the solution.

OPPORTUNITIES: Career opportunities include systems architect, systems analyst, programmer, e-commerce administrator, database administrator, trainer, LAN administrator network engineer, information systems manager, and contractor. There is a critical shortage of Microsoft developers as there are approximately 22,000 MCSDs worldwide. The growth of e-Commerce and use of Microsoft products will increase the demand for qualified solutions developers. Average salary in the southwest region is \$78,500.

Note: PVCC may not offer all courses needed for the following programs. Courses needed to complete the program(s) may also be available at RSC.

CERTIFICATE OF COMPLETION: 5048

# PROGRAMMING & SYSTEM ANALYSIS

25-26 CREDITS

DESCRIPTION: The Certificate of Completion (CCL) program provides an in-depth exploration of different computer language and technical skills. The program includes, but is not limited to the following: operating systems, local area networks, business communication, team roles, and dynamics.

PROGRAM NOTES: Students must earn a grade of "C" or better for all courses required within the program. "+" indicates course has prerequisites and/or corequisites.

PROGRAM PREREQUISITES: Credits: 3

+ ENG101 First-Year Composition (3) OR

+ ENG107 First-Year Composition for ESL (3) OR

Equivalent 3

REQUIRED COURSES: Credits: 25-26

BPC/CIS117DM Microsoft Access: DBase Management (3) OR BPC/CIS117AM Dbase Management: MS Access - Level I (1)

- + BPC/CIS117BM Dbase Management: MS Access Level II (1)
- + BPC/CIS117CM Dbase Management: MS Access Lev III (1) 3

CIS105 Survey of Computer Information Systems 3

CIS121AB MS-DOS (1) OR

CIS121AE Windows Operating System: Level I (1) OR
CIS126A+ Any Level I operating system module (1)

+ CIS150++	Any Programming Fundamentals (3)	3	
Select 2 of the	following 3 courses for a total of 6 credits:	6	
+ CIS159	Visual Basic Programming I (3)		
+ CIS162++	Any level 1 C language course (3)		
+ CIS163AA	Java Programming Level I (3)		
+ CIS190	Introduction to Local Area Networks (3) OR		
+ CNT140	Cisco Networking Basics (4) OR		
+ MST140	Microsoft Networking Essentials (3)	3-4	
+ CIS225++	Any Analysis and Design course (3)	3	
+ GBS233	Business Communication	3	
Note: ENG101 or ENG107 with a grade of "C" or better or permission of department/division are prerequisite to GBS233.			
DECTRICED ELECTIVES, None			

RESTRICED ELECTIVES: None

ASSOCIATE IN APPLIED SCIENCE: 3844

# PROGRAMMING & SYSTEM ANALYSIS

62-63 CREDITS

DESCRIPTION: In depth exploration of different computer language and technical skills. Includes operating systems, local area networks, business communication, team roles, and dynamics.

PROGRAM NOTES: Students must earn a grade of "C" or better in each course in the Required Courses area. "+" indicates prerequisite. "++" indicates any module. Overall GPA: 2.0

#### PROGRAM PREREQUISITES:

Credits: 3

+ CRE101 Critical and Evaluative Reading I (3) OR

	Equivalent by assessment		
REQUIRED COURSES: Credits: 25-26 BPC/CIS117DM MS Access: Database Management (3) OR BPC/CIS117AM Dbase Mgt: Microsoft Access-Level I (1) AND + BPC/CIS117BM Dbase Mgt: Microsoft Access - Level II (1) AND + BPC/CIS117CM Dbase Mgt: Microsoft Access - Level III (1) 3			
CIS105	Survey of Computer Information Systems	3	
CIS121AB CIS121AE CIS126AA CIS126AL	MS-DOS (1) OR Windows Operating System: Level I (1) OR UNIX Operating System: Level I (1) OR Linux Operating System I (1)	1	
+ CIS150 + CIS150AB	Programming Fundamentals (3) OR Object-Oriented Programming Fundamentals (3)	3	
+ CIS159	Visual Basic Programming I	3	
CIS162 + CIS162AA + CIS162AB + CIS162AC	C++: Level I (3) OR Visual C++: Level I (3) OR		
+ CIS162AD	C#: Level I (3)	3	

+ CIS190 + CNT140	Introduction to Local Area Networks (Cisco Networking Basics (4) OR	(3) OR	
+ MST140	Microsoft Networking Essentials (3)	3-4	
+ CIS225 + CIS225AB	Business Systems Analysis and Desig Object-Oriented Analysis and Design		
+ GBS233	Business Communication	3	
CIS126DA + CIS163AA + CIS166 + CIS166AB + CIS166AC + CIS166AD + CIS166AE + CIS169 + CIS224 + CIS250 + CIS259 + CIS259 + CIS262 + CIS262AA + CIS262AA + CIS262AB	UNIX Operating System Java Programming: Level I Web Scripting/Programming Introduction to JavaScripting Web Scripting with Perl/CGI Web Scripting w/Active Server Pages Web Scripting with Java Server Pages Web Scripting with Java Server Pages Web Scripting with Java Server Pages Web Script w/PHP: Hypertext Preprod Introduction to Visual Basic for Applic Project Mgt Microsoft Project for Wir Management Information Systems Visual Basic Programming II C Programming II C: Level II C++: Level II Visual C++: Level II	(JSP) 3 cessor (PHP) 3 cations 3 dows 3 3 3 3 3 3 3 3	
+ CIS263AA + CIS290AC	Java Programming: Level II Computer Information Systems Intern	ship 3	
GENERAL EI	DUCATION REQUIREMENTS:	Credits: 22	
CORE: First-Year Con ENG101 + ENG107 + ENG102 + ENG108	nposition: First-Year Composition (3) OR First-Year Composition for ESL (3) A First-Year Composition (3) OR First-Year Composition for ESL (3)	Credits: 12 ND	
Oral Communication: Any approved general education course in the Oral Communication area.  3			
Critical Readin Met by C	ng: RE101 in Program Prerequisites area.	0	
Mathematics: + MAT212	Brief Calculus	3	
DISTRIBUTION: Credits: 10 Humanities and Fine Arts: Any approved general education course in the Humanities and Fine Arts area. 3			
Natural Sciences: Any approved general education course in the Natural Sciences area. 4			
Social and Beh ECN111 ECN112 SBU200	Macroeconomic Principles (3) OR Microeconomic Principles (3) OR Society and Business (3)	3	

### RETAIL MANAGEMENT

CERTIFICATE OF COMPLETION: 5286

#### RETAIL MANAGEMENT

33 CREDITS

DESCRIPTION: The Retail Management Certificate is designed to prepare individuals working in the food industry, and related fields, for the management challenges of the future. The curriculum encompasses several business essentials and also emphasizes the skill sets needed for effective management and communication in the work environment.

PROGRAM REQUIREMENTS: Note: + indicates course has prerequisites and/or corequisites. Note: Students must earn a "C" or better in all courses within the program.

ADMISSION CRITERIA: None PROGRAM PREREQUISITES: None

R	-	O COURSES: Accounting Principles I	Credits:	33 3
	BPC110 CISI05	Computer Usage & Applications (3) OR Survey of Computer Information Systems	(3)	3
		First-Year Composition (3) OR First-Year Composition for ESL (3)		3
+		Human Relations in Business and Industry Human Relations in Business (3)	(3) OR	3
+		Business Calculations (3) OR Mathematical Concepts & Applications (3)	)	3
+	GBS233	Business Communication		3
		Interpersonal Communication (3) OR Speaking in Business (3)		3
		Techniques of Supervision (3) OR Management and Leadership I (3)		3
		Utilizing the Human Resources Department Personnel/Human Resources Management		3
+		Merchandising Principles of Marketing		3

ASSOCIATE OF APPLIED SCIENCE: 3048

#### RETAIL MANAGEMENT

64 CREDITS

DESCRIPTION: The Retail Management degree is designed to prepare individuals working in the retail management, food industry, and related fields, for the mid-level management position challenges of the future. The curriculum encompasses business essentials and also emphasizes the skill sets needed for effective management and communication in the work environment. Instruction will provide the background and knowledge necessary for students to develop the judgment skills they must exercise as business managers.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses within the program. "+" indicates course has prerequisites and/or corequisites.

_	REQUIRED COURSES: Credits:			
ACC111	Accounting Principles I		3	
+ ACC230	Uses of Accounting Information I		3	
+ ACC240	Uses of Accounting Information II	2	3	
BPC110	Computer Usage and Applications (3)	OR		
CISI05	Survey of Computer Information Syste		3	
	2 · · · · · · · · · · · · · · · · · ·	(- )		
COM110	Interpersonal Communication (3) OR			
IND133	Speaking in Business (3)	3	3	
GBS110	Human Relations in Business and Indu	etry (3) OR		
MGT251	Human Relations in Business (3)	-	3	
WIG1231	Hullian Relations in Business (3)	-	,	
GBS131	Business Calculations (3) OR			
+ GBS161	Mathematics of Business (3)	3	3	
CDC205	Land Edding and Danieles on Lance:	D:	2	
GBS205	Legal, Ethical, and Regulatory Issues i		3	
+ GBS233	Business Communication		)	
MGT101	Techniques of Supervision (3) OR			
MGT229	Management and Leadership I (3)	3	3	
1.6CE150		(2) OB		
MGT179	Utilizing the Human Resources Depart			
MGT276	Personnel/Human Resources Managen	nent (3)	3	
MKT268	Merchandising	3	3	
MKT271	Principles of Marketing		3	
minizer rimelples of marketing				
RESTRICTED	ELECTIVES: None			
GENERAL EI	DUCATION:	Credits: 25	5	
CORE:		Credits: 15	5	
First-Year Con				
+ ENG101	First-Year Composition (3) OR			
+ ENG107	First-Year Composition for ESL (3) AN	√D		
+ ENG102	First-Year Composition (3) OR			
+ ENG108	First-Year Composition for ESL (3) OI	₹		
+ ENG111	Technical Writing (3)		6	
ENG102 or ENG108 recommended for students pursuing a				
BAS degree	BAS degree at an Arizona university.			
Oral Commun	ication			
COM230	Small Group Communication	2	3	
CON1230	Sman Group Communication	-	,	

Critical Readin	g		
CRE101	Critical and Evaluative Reading I (3) C Equivalent by assessment	)R	3
Mathematics MAT102	Mathematical Concepts/Applications (	3) OR	
	Satisfactory completion of a higher lev		
	mathematics course		3
DISTRIBUTIO	ON:	Credits:	10
Humanities and	d Fine Arts		
Any approve	ed general education course from the		
Humanities and Fine Arts area.			3
Social and Beh	avioral Sciences		
SBU200	Society and Business		3
Natural Science	es		
Any approve	ed general education course from the		
Natural Scie	nces area.		4

# STRENGTH, NUTRITION & PERSONAL TRAINING

CERTIFICATE OF COMPLETION: 5445

# STRENGTH & CONDITIONING PERSONAL TRAINER

31 CREDITS

DESCRIPTION: The Strength and Conditioning Personal Trainer certificate prepares students for employment in the fitness industry as Strength and Conditioning Personal Trainers/Coaches. This curriculum provides students with a fundamental knowledge of human physiology and anatomy, prevention and treatment of exercise related injuries, emergency response readiness, health appraisals and assessments; application of exercise fitness principles and strength training techniques; a fundamental knowledge of nutrition, weight control, stress management and exercise physiology, and biomechanics; skills in exercise testing and fitness measures as well as writing exercise prescriptions and program designs for diverse populations.

PROGRAM NOTES: Students must earn a grade of "C" or better in all courses within the program. "+" indicates course has prerequisite and/or corequisite. Overall GPA required: 2.00

PROGRAM NOTES: "+" indicates course has prerequisites and/or corequisites.

PROGRAM PREREQUISITES: None

REQUIRED C	OURSES: Credits:	31
BIO160	Introduction to Human Anatomy and Physiology	4
HES100	Healthful Living	3
HES154	First Aid/Cardiopulmonary Resuscitation	3
HES271	Prevention and Treatment of Athletic Injuries	3

PED112	Professional Applications of Fitness Principles	3
PED125	Exercise Science	3
PED130	Strength Fitness-Physiological Principles	
	and Training Techniques	3
PED145	Guidelines for Exercise Testing and Prescription	3
+ PED275	Methods of Enhancing Physical Performance	3
+ PED285	Exercise Program Design and Instruction	3

ASSOCIATE OF APPLIED SCIENCE: 3059

# STRENGTH, NUTRITION & PERSONAL TRAINING

72-75 CREDITS

DESCRIPTION: The Strength, Nutrition, and Personal Training Associate in Applied Science (AAS) prepares students with the knowledge and experience required to be eligible for the American College of Sports Medicine (ACSM) Health and Fitness Instructor Certification, ACSM personal trainer certification, the National Strength and Conditioning Association (NSCA) personal trainer certification, and the American Council on Exercise (ACE) personal trainer certification. This degree will provide students with a stronger educational background making them more marketable in the field of fitness and nutrition. This degree will also meet the needs of individuals with existing degrees in such fields as Exercise Physiology, Nutrition, Athletic Training and other health related disciplines. Registered dietitians, clinical exercise physiologists, personal trainers, exercise specialists, strength and conditioning specialists, coaches, athletes and others interested in acquiring knowledge in exercise, nutrition and health are also eligible for this program.

PROGRAM NOTES: Students must earn a grade of "C" or better required for all courses within the program. "+" indicates course has prerequisite and/or corequisites.

PROGRAM PREREOUISITES: None

REQUIRED C	OURSES:	Credits:	47-48
BPC110	Computer Usage and Applications		3
FON100	Introductory Nutrition		3
+ FON100AD	Nutrition Sports and Physical Activity	7	1
+ FON137	Nutrition Supplements		2
+ FON230	Nutrition for Special Populations		3
+ FON247	Weight Management Theory		3
HES154 BLS	First Aid/Cardiopulmonary Resuscitat Health Care Provider & First Aid Cert	` '	
HES271	Prevention and Treatment of Athletic	Injuries	3
MGT253	Owning and Operating a Small Busine	ess	3
PED112	Professional Applications of Fitness P	rinciple	s 3
PED125	Exercise Science		3
PED145	Guidelines for Exercise Testing and P	rescripti	ion 3
+ PED139++	Practical Applications of Personal Tra and Techniques Internship (3) (any mo		
+ PED285	Exercise Program Design and Instruct	tion (3)	3
PSY101	Introduction to Psychology		3

AND  Choose one of the following series for 5-6 credits: Series 1: Credits: 6 PED212SC Instructional Competency Lab: Muscular Strength and Conditioning 2	TEA  STRI  DESCRIPTION: training in kine meditation; instructechniques to stress in teaching and ut clinical and profe
Choose one of the following series for 5-6 credits:  Series 1: Credits: 6  PED212SC Instructional Competency Lab:  Muscular Strength and Conditioning 2	DESCRIPTION: training in kine meditation; instr techniques to stres in teaching and ut
Series 1: Credits: 6 PED212SC Instructional Competency Lab: Muscular Strength and Conditioning 2	DESCRIPTION: training in kine meditation; instr techniques to stres in teaching and ut
PED212SC Instructional Competency Lab: Muscular Strength and Conditioning 2	DESCRIPTION: training in kine meditation; instr techniques to stres in teaching and ut
	training in kine meditation; instr techniques to stres in teaching and ut
PED212CR Instructional Competency Laboratory:	techniques to stres in teaching and ut
Cardiorespiratory Exercises and Activities 2 PED212FL Instructional Competency Laboratory: Flexibility and Mind-Body Exercises 2	
OR	
Series 2: Credits: 5 PED130 Strength Fitness-Physiological Principles	
and Training Techniques 3	C
PED132 Cardiovascular Fitness: Physiological Principles and Training Techniques 2	TEACHI
OR	& S'
Series 3: Credits: 5 + PED275 Methods of Enhancing Physical Performance 3 PED132 Cardiovascular Fitness: Physiological Principles and Training Techniques 2	PROGRAM NOT all courses within and/or corequisite
RESTRICTED ELECTIVES: None	PROGRAM PRE
GENERAL EDUCATION REQUIREMENTS: Credits: 25-27	Completion of an
CORE: Credits: 15-17	discipline from a recognized by Ma
First Year Composition  ENG101 First Year Composition (3) AND  ENG102 First Year Composition (3) OR  ENG107 First-Year Composition for ESL (3) AND  ENG108 First-Year Composition for ESL (3) 6	combination degreeducation, exercis related health fiel HCC 130 HCC 130AA
Oral Communication COM100 Introduction to Human Communication (3) OR 3 COM110 Interpersonal Communication (3)	HCC 130AB HCC 130AC HCC 130AD
Critical Reading CRE101 Critical and Evaluative Reading I 3	HCC 130AE HCC 130AF HCC 145AA
Mathematics MAT120 Intermediate Algebra (5) OR MAT121 Intermediate Algebra (4) OR MAT122 Intermediate Algebra (3) 3-5	REQUIRED COU HES 100 PED 101DD PED 102DD
DISTRIBUTION: Credits: 10	PED 201DD
Humanities and Fine Arts Any approved general education course in the Humanities and Fine Arts area  3	PED 202DD AND PED 101VR PED 102 VR
Social and Behavioral Sciences CFS205 Human Development (3) OR HES100 Healthful Living (3) 3	PED 201 VR PED 202 VR PED 101YJ
Natural Sciences BIO160 Introduction to Human Anatomy and Physiology 4	PED 102YJ PED 201YJ PED 202YJ

# ACHING HEALING **MEDITATION &** ESS MANAGEMENT

This program provides instruction and experiential etic, auditory, and visual modalities of healing truction and training in the application of these ess management; and training and practical experience itilizing healing meditation for stress management in essional settings.

CERTIFICATE OF COMPLETION: 5018

# ING HEALING MEDITATION STRESS MANAGEMENT

21.5 CREDITS

TES: Students must earn a grade of "C" or better in in the program. "+" indicates course has prerequisite te. Overall GPA required: 2.00

#### **EREQUISITES**

n AAS degree or higher in a recognized health science regionally accredited institution of higher education Maricopa County Community College District, OR a gree in psychology, social work, counseling, health ise science or related field AND 1 year experience in elds, OR all of the following HCC courses:

HCC 130	Fundamentals in Health Care Delivery (3) OR
HCC 130AA	Health Care Today (0.5) AND
HCC 130AB	Workplace Behaviors in Health Care (0.5) AND
HCC 130AC	Personal Wellness and Safety (0.5) AND
HCC 130AD	Communication and Teamwork in
	Health Care Organizations (0.5) AND
HCC 130AE	Legal & Ethical Issues in Hlth Care (0.5) AND
HCC 130AF	Decision Making in Hlth Care Setting (0.5) 3
HCC 145AA	Medical Terminology/Health Care Workers I 1
	5,
REQUIRED COU	RSES Credits: 21.5
HES 100	Healthful Living 3
PED 101DD	Physical Activity: Qi Gong (1) OR
PED 102DD	Physical Activity: Qi Gong (1) OR
PED 201DD	Physical Activity: Qi Gong (1) OR
PED 202DD	Physical Activity: Qi Gong (1)
AND	
PED 101VR	Physical Activity: Tai Chi (1) OR
PED 102 VR	Physical Activity: Tai Chi (1) OR
PED 201 VR	Physical Activity: Tai Chi (1) OR
PED 202 VR	Physical Activity: Tai Chi (1) OR
PED 101YJ	Physical Activity: Yoga (1) OR
PED 102YJ	Physical Activity: Yoga (1) OR
PED 201YJ	Physical Activity: Yoga (1) OR
PED 202YJ	Physical Activity: Yoga (1)

+	SOC 270	Sociology of Health and Illness	3
	WED 105	Minimizing Workplace Stress	0.5
	WED 151	Introduction to Alternative Medicine	3
	WED 162	Meditation and Wellness	1
+	WED 257	Kinetic Meditation	2
+	WED 258	Auditory Meditation	2
+	WED 259	Visual Meditation	2
+	WED 275	Practicum: Teaching Healing Meditation,	
		Stress Management	3

RESTRICTED ELECTIVES: None

# PRE-PROFESSIONAL PATHWAYS

Students at PVCC who are interested in the following pre-professional programs need to work closely with a PVCC academic advisor to identify the best educational programs:

- Actuarial Science transfer to NAU
- Pre-Education transfer to ASU, NAU, or U of A
- Pre-Engineering transfer to ASU, NAU, or U of A
- Pre-Environmental transfer to U of Findlay
- Pre-Med transfer to Midwestern University/ Glendale Campus & Universidad Autonoma de Guadalajara
- Pre-Nursing transfer to ASU or NAU, or U of A
- Pre-Nursing transfer to an AAS/Nursing at other MCCCD Colleges
- Pre-Pharmacy or Biomedical Sciences transfer to Midwestern University/Glendale Campus

The associate transfer degrees (AA,AS) provide alignment to several of the above pre-professional programs at the Arizona public universities. A PVCC academic advisor will have checksheets and lists of common courses for specific majors.

PVCC has worked closely with Midwestern University/Glendale Campus to identify courses PVCC students can complete that will apply to the first 2 years of a 4-year pharmacy degree at Midwestern or to a degree in biomedical sciences. In addition to the courses, students must meet other entrance requirements when applying to Midwestern.