# 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 <br> - 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, $A C$


## 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 <br> Academic Certificate: 6201 <br> AESTHETIC APPLICATIONS <br> 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:

| ARH 101 | Prehistoric Through Gothic Arts (3) OR |
| ---: | :--- |
| 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 |

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 Specialization: Credits:
ARH 109 History of American Art 3
+ ARH 115 History of Photography 3
ARH 201 Art of Asia 3
ARH 217 Mexican Art History 3
ART 100 Intro to Computer Graphic Art 1
ART/ADA 115 Three-Dimensional Design 3
+ ART 116 Life Drawing I 3
ART 131 Introduction to Photography 3
+ ART 261 Ceramics III 3
COM 110 Interpersonal Communication 3
+ COM 225 Public Speaking 3
+ COM 241 Performance of Literature 3
+ DAH 201 World Dance Perspectives 3
+ DAN 134 Ballet II 1
+ DAN 135 Modern Dance II 1
+ DAN 136 Modern Jazz Dance II 1
+ DAN 231 Ballet III 1
+ DAN 232 Modern Dance III 1
+ DAN 233 Modern Jazz Dance III 1
+ DAN 265 Dance Choreography II 3
+ ENG 200 Reading \& 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 Intro to Contemporary Literature 3
ENH 285 Contemporary Women Writers 3
+ ENH 289 Literature from Nobel Laureates 3
GBS 151 Introduction to Business 3
HUM 110 Folklore of the Southwest 3
HUM 209 Women and Films 3
HUM 211AA Foreign Films: Classics 3
HUM 211AB Foreign Films: Japanese 3
HUM 211AD Foreign Film: Third World 3
HUM 212 Documentary Film 3
HUM 213 Hispanic Film 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
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 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

Credits: 1-3
Students may sect and prefixes or, with prior approval from the program director or designee, 1-

BPC+++++ Any BPC course (1-3) OR
1-3

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

## Fine \& Performing Arts <br> 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)


## Fine \& Performing Arts Academic Certificate Programs

ACADEMIC SPECIALIZATION:
Credits: 6
Students must select 6 credits from the following list of Academic Specialization. Consult with program director or designee for other related course options.

| ARH109 | History of American Art | 3 |
| :---: | :---: | :---: |
| + ARH115 | History of Photography | 3 |
| ARH201 | Art of Asia | 3 |
| ARH217 | Mexican Art History | 3 |
| ART100 | Introduction to Computer Graphic Art | 1 |
| ART/ADA | 15 Three-Dimensional Design | 3 |
| + ART116 | Life Drawing I | 3 |
| ART131 | Introduction to Photography | 3 |
| + ART261 | Ceramics III | 3 |
| COM110 | Interpersonal Communication | 3 |
| + COM225 | Public Speaking | 3 |
| + COM241 | Performance of Literature | 3 |
| + DAH201 | World Dance Perspectives | 3 |
| + DAN134 | Ballet II | 1 |
| + DAN135 | Modern Dance II | 1 |
| + DAN136 | Modern Jazz Dance II | 1 |
| + DAN231 | Ballet III | 1 |
| + DAN232 | Modern Dance III | 1 |
| + DAN233 | Modern Jazz Dance III | 1 |
| + DAN265 | Dance Choreography II | 3 |
| + ENG200 | Reading and Writing About Literature | 3 |
| + ENG211 | Screenwriting | 3 |
| + ENG213 | Introduction to the Study of Languages | 3 |
| ENG235 | Magazine Article Writing | 3 |
| ENG260 | Film Analysis | 3 |
| ENH204 | Introduction to Contemporary Literature | 3 |
| ENH285 | Contemporary Women Writers | 3 |
| + ENH289 | Literature from Nobel Laureates | 3 |
| GBS151 | Introduction to Business | 3 |
| HUM110 | Folklore of the Southwest | 3 |
| HUM209 | Women and Films | 3 |
| HUM211A | Foreign Films: Classics | 3 |
| HUM211A | Foreign Films: Japanese | 3 |
| HUM211A | Foreign Film: Third World | 3 |
| HUM212 | Documentary Film | 3 |
| HUM213 | Hispanic Film | 3 |
| HUM260 | Intercultural Perspectives | 3 |
| HUM261 | Asian Ideas and Values | 3 |
| MGT253 | Owning and Operating a Small Business | 3 |
| MKT271 | Principles of Marketing | 3 |
| MHL143 | Music in World Cultures | 3 |
| MHL145 | American Jazz and Popular Music | 3 |
| MHL146 | Survey of Broadway Musicals | 3 |
| MHL153 | Rock Music and Culture | 3 |
| + MTC240 | Composition | 3 |

MUC109 Music Business: Merchandising \& Law ..... 3
MUP150 Community Chorus ..... 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
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 Discipline: |  |
| :--- | :--- |
| DAH 100 | Introduction to Dance (3) OR |
| DAN 131 | Ballet I (1) AND |
| DAN 132 | Modern Dance I (1) AND |
| DAN 133 | Modern Jazz Dance I (1) OR |

Creative Writing Discipline:

+ ENG 210 Creative Writing (3) OR
Cinema Discipline:

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\begin{array}{ll}
\text { HUM } 205 & \text { Introduction to Cinema (3) OR } \\
\text { THE 205 } & \text { Introduction to Cinema (3) OR }
\end{array}
$$

$\begin{array}{ll}\text { Music Discipline: } \\ \text { MTC 101 } & \text { Introduction to Music Theory (3) OR } \\ \text { MTC 105 } & \text { Music Theory I (3) AND } \\ \text { MTC 106 } & \text { Aural Perception I (1) OR }\end{array}$
Theatre Discipline:
THE 111 Introduction to Theatre (3) OR
THP 112 Acting I (3) OR
ACADEMIC SPECIALIZATION:
Credits: 6
Students must select 6 credits from the following list of Academic Specialization. (Note: Consult with program director or designee for other related course options.)

| ARH 109 | History of American Art | 3 |
| :--- | :--- | :--- |
| + ARH 115 | History of Photography | 3 |
| ARH 201 | Art of Asia | 3 |
| ARH 217 | Mexican Art History | 3 |
| ART 100 | Introduction to Computer Graphic Art | 1 |
| + ART/ADA | T15 Three-Dimensional Design | 3 |
| + ART 116 | Life Drawing I | 3 |
| ART 131 | Introduction to Photography | 3 |
| + ART 261 | Ceramics III | 3 |
| COM 110 | Interpersonal Communication | 3 |
| + COM 225 | Public Speaking | 3 |
| + COM 241 | Performance of Literature | 3 |
| + DAH 201 | World Dance Perspectives | 3 |
| + DAN 134 | Ballet II | 1 |
| + DAN 135 | Modern Dance II | 1 |
| + DAN 136 | Modern Jazz Dance II | 1 |
| + DAN 231 | Ballet III | 1 |
| + DAN 232 | Modern Dance III | 1 |
| + DAN 233 | Modern Jazz Dance III | 1 |
| + DAN 265 | Dance Choreography 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 |
| GBS 151 | Introduction to Business | 3 |
| HUM 110 | Folklore of the Southwest | 3 |
| HUM 209 | Women and Films |  |

HUM 211AA Foreign Films: Classics ..... 3
HUM 211AB Foreign Films: Japanese ..... 3
HUM 211AD Foreign Film: Third World ..... 3
HUM 212 Documentary Film ..... 3
HUM 213 Hispanic Film ..... 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 201 AB ..... 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 must select and complete 1-3 credits from any of the follow-ing prefixes:
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


## Fine \& Performing Arts Academic Certificate Programs

# Fine \& Performing Arts <br> Academic Certificate: 6204 <br> FINE \& PERFORMING ARTS PRINCIPLES <br> 16-18 credits 

DESCRIPTION: The Academic Certificate in Fine \& Performing 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 to examine components of various artistic principles which, in turn, will enhance students' individual artistic endeavors 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.

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:

| ARH 101 | Prehistoric Through Gothic Art (3) OR |
| :--- | :--- |
| ARH 102 | Renaissance Through Contemporary Art (3) OR |
| ART 165 | Watercolor Painting I (3) OR |
| ART 167 | Painting I (3) OR |

Dance Discipline:
DAN 264 Dance Choreography I (3) OR
Creative Writing Discipline:
ENG 205 Nature of Poetry (3) OR
Humanities Discipline:

+ HUM 251 Ideas and Values in the Humanities (3) OR
(Note: ENG101 required as prerequisite to HUM251.)
Music Discipline:
MHL 140 Survey of Music History (3) OR
Theatre Discipline:
THE 211 Creative Drama (3) OR


## ACADEMIC SPECIALIZATION:

Credits: 6
Students must select 6 credits from the following list of Academic Specialization courses with a minimum of 3 credits from the listed COM, GBS, MGT or MKT prefixes. (Note: Consult with program director or designee for other related course options.)

| ARH 109 | History of American Art | 3 |
| ---: | :--- | :--- |
| + ARH 115 | History of Photography | 3 |
| ARH 201 | Art of Asia | 3 |

ARH 217 Mexican Art History ..... 3
ART 100 Introduction to Computer Graphic Art ..... 1
ART/ADA 115 Three-Dimensional Design ..... 3
ART 116 Life Drawing I ..... 3
ART 131 Introduction to Photography ..... 3
ART 261 Ceramics III ..... 3
COM 110 Interpersonal Communication ..... 3

+ COM 225 Public Speaking ..... 3
+ COM 241 Performance of Literature ..... 3
+ DAH 201 World Dance Perspectives ..... 3
+ DAN 134 Ballet II ..... 1+ DAN 135 Modern Dance II
1
+ DAN 136 Modern Jazz Dance II ..... 1+ DAN 231 Ballet III
1+ DAN 232 Modern Dance III1
+ DAN 233 Modern Jazz Dance III ..... 1+ DAN 265 Dance Choreography II
3
ENG 200 Reading and Writing About Literature + 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
GBS 151 Introduction to Business ..... 3
HUM 110 Folklore of the Southwest ..... 3
HUM 209 Women and Films ..... 3
HUM 211AA Foreign Films: Classics ..... 3
HUM 211AB Foreign Films: Japanese ..... 3
HUM 211AD Foreign Film: Third World ..... 3
HUM 212 Documentary Film ..... 3
HUM 213 Hispanic Film ..... 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


## 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:

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, 13 credits may be substituted from the Academic Specialization area.

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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
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## 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.

## PROGRAM PREREQUISITES:

Credits: 3

+ ENG101 First Year Composition
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 to the Renaissance

History/Philosophy/Religion:

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\begin{array}{ll}
\text { HIS243 } & \text { World Religions (3) OR } \\
\text { PHI243 } & \text { World Religions (3) OR } \\
\text { REL243 } & \text { World Religions (3) }
\end{array}
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Social \& Behavioral Sciences:
Credits: 9
Anthropology:
ASB102 Intro. to Cultural and Social Anthropology
Geography:
GCU121 World Regional Geography Eastern Hemisphere
3
GCU122 World Regional Geography Western Hemisphere

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)
+ CHI202 Intermediate Chinese II (5)
History:
HIS113 History of Eastern Civilizations to 1850 (3)
HIS114 History of Eastern Civilizations 1850 to Present (3)
HIS271 History of the Far East to 1900 (3)
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)
+ JPN102 Elementary Japanese II (5)
+ 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)
ASB276 Nature of Language (3)
ASM104 Introduction to Biological Anthropology (4)

| 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) |
| HUM211A | D 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: |  |
| PHI 104 | World Philosophy (3) |
| Political Science: |  |
| POS 120 | World Politics (3) |
| POS 125 | Issues in World Politics (3) |
| POS140 | Comparative Government (3) |
| POS 180 | United Nations Studies (3) |
| Psychology: |  |
| PSY132 | Psychology and Culture (3) |
| Sociology: |  |
| SOC101 | Introduction to Sociology (3) |
| + SOC250 | Comparative Human Institutions (3) |

## Associate in Applied Science Degree \& Certificate Programs

## 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 I (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:

$$
\begin{array}{ll}
\text { SPH150 } & \text { Peninsular Spanish Literature in Translation (3) } \\
\text { SPH151 } & \text { Latin American Literature in Translation (3) }
\end{array}
$$

## 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:
HIS $110 \quad$ 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:
POS 120 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 <br> 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.

## REQUIRED COURSES:

Credits: 35-37

|  | 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 |

## Associate in Applied Science Degree \& Certificate Programs

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BPC 117DM Microsoft Access: DB Management (3) OR
BPC 117AM DB Mgt: Microsoft Access Level I (1) AND
BPC 117BM DB Mgt: Microsoft Access Level II (1) AND
BPC 117CM DB Mgt: Microsoft Access Level III (1) 3
BPC \(110 \quad\) 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 completion of a higher level math course. 3-5
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## 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

|  | 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) | 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 completion 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
$\begin{array}{lll}\text { AJS++++++ } & \text { Any AJS prefix courses not listed under } & \\ & \text { Required Courses area }\end{array}$
HES201 Substance Abuse and Behavior 3
CWE198++ $\begin{aligned} & \text { Any CWE Career/Work Experience } \\ & \text { (any suffixed course) }\end{aligned}$
GENERAL EDUCATION REQUIREMENTS: Credits: 25-27
CORE: Credits: 15-17
First-Year Composition
Any approved General Education course in the
First-Year Composition Area
Oral Communication
Any approved General Education course in the Oral Communication Area

Critical Reading
Any approved General Education course in the
Critical Reading Area or equivalent as indicated by assessment

# Mathematics 

Any approved General Education course from the
Mathematics Area or equivalent as indicated by assessment
DISTRIBUTION: Credits: 10

Humanities and Fine Arts<br>Any approved General Education course in the<br>Humanities and Fine Arts Area<br>except AJS123 if taken as a Restricted Elective<br>Social and Behavioral Sciences<br>PSY101 Introduction to Psychology (3) OR<br>SOC101 Introduction to Sociology (3) OR<br>SOC140 Racial \& Ethnic Minorities (3)

Natural Sciences
Any approved General Education course from the
Natural Sciences 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

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)


## GBS131 Business Calculations

GBS233 Business Communication
OAS101 Computer Type I. Keyboarding/Format

+ OAS102 Computer Type II: Document Production 3
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) | $3-4$ |

$\begin{array}{lll}\text { BPC110 } & \text { Computer Usage and Applications (3) OR } \\ \text { CIS105 } & \text { Survey of Computer Info. Systems (3) } & 3\end{array}$
BPC125 Microcomputer Setup and Maintenance 1
BPC/CIS133AA Internet/Web Development Level I (1) AND

+ BPC/CIS133BA Internet/Web Development Level II (1) AND
+ BPC/CIS133CA Internet/Web Development Level III (1) OR
+ BPC/CIS133DA Internet/Web Development Level I (3) 3
CIS109AM Networking Technology I (2) OR
CIS190 Introduction to Local Area Networks (3) 2-3
+ CIS233++ Internet/Web (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
MGT251 Human Relations in Business 3
+ OAS118 10-key By Touch 1
+ OAS201 Typing III: Adv. Document Production 3
OAS296++ Cooperative Education (1-3) OR
CWE198++ Career/Work Experience (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

## Associate in Applied Science Degree \& Certificate Programs

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.

## REQUIRED COURSES:

Credits: 29

## CIS121AE Windows Operating System: Level I

1
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: Microsoft Access Level II (1)AND
+ BPC117CM DBase Mgt: MS Access Level III (1) OR
+ BPC117DM Microsoft Access: DBase Mgt: (3)
+ BPC118AB Powerpoint: Level I (1) AND
+ BPC118BB Powerpoint: Level II (1) AND
+ BPC118CB Powerpoint: Level III (1) OR
+ BPC118DB Desktop Presentation: Powerpoint (3)
+ BPC135DK Word: Level I
+ BPC235DK Word: Level II 2
GBS233 Business Communication 3
OAS101 Computer Type I: Keyboarding/Format 3
+ OAS102 Computer Type II: Document Production 3 OAS108 Business English 3
OAS125 Introduction to the Professional Office 3
RESTRICTED ELECTIVES: Credits: 8
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)
BPC125 Microcomputer Setup and Maintenance
BPC/CIS133AA Internet/Web Development Level I (1) AND
+ BPC/CIS133BA Internet/Web Development Level II (1) AND
+ BPC/CIS133CA Internet/Web Development Level III (1) OR
+ BPC/CIS133DA Internet/Web Development Level I (3) 3

| CIS109AM | Networking Technology I (2) OR |  |
| :--- | :--- | ---: |
| CIS190 | Introduction to Local Area Networks (3) | $2-3$ |
| + CIS233+++ | Internet/Web (any module) (1) OR |  |
| + CIS233DA | Internet/Web Development Level II (3) | $1-3$ |
| GBS151 | Introduction to Business | 3 |
|  |  | 3 |
| IBS101 | Introduction to International Business | 3 |
| MGT175 | Business Organization and Management | 3 |
| MGT251 | Human Relations in Business | 3 |
| + OAS118 | 10-key By Touch | 1 |
| + OAS201 | Typing III: Advanced Document Production | 3 |

$\begin{array}{lll}\text { OAS296++ Cooperative Education (1-3) OR } \\ \text { CWE198++ Career/Work Experience (1-3) } & 1-3\end{array}$
GENERAL EDUCATION REQUIREMENTS Credits: 24-27

## CORE:

Credits: 15-17
First Year Composition

+ Any approved general education course in the First-Year Composition area.
Oral Communication
+ Any approved general education course in the Oral Communication area.

Critical Reading

+ Any approved general education course in the Critical Reading area.

Mathematics

+ Any approved general education course in the Mathematics area.
DISTRIBUTION:
Credits: 9-10
Humanities \& Fine Arts
Any approved general education course in the
Humanities \& Fine Arts area.
Social \& Behavioral Sciences
Any approved general education course in the
Social \& Behavioral Sciences area. (recommend PSY101)
Natural Sciences
4
Any approved general education course in Natural Sciences area.

Certificate of Completion: 5236

## CUSTOMER SERVICE / INFORMATION PROFESSIONAL <br> 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 COURSES: 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 1
+ BPC135DK Word: Level I 2
CIS121AE Windows Operating System: Level I 1


## Associate in Applied Science Degree \& Certificate Programs

| GBS131 | Business Calculations | 3 |
| :---: | :---: | :---: |
| GBS233 | Business Communication | 3 |
| MGT126 | Customer Service Skills and Strategies | 3 |
| MGT251 | Human Relations in Business | 3 |
| OAS101 | Computer Type I: Keyboarding/Format | 3 |
| OAS108 | Business English | 3 |
| RESTRICTED ELECTIVES: Credits: 7 |  |  |
| ACC107 | Bookkeeping Theory and Practice (4) OR |  |
| ACC111 | Accounting Principles I (3) | 3-4 |
| BPC101AA | Intro to Microcomputers I: IBM | 1 |
| + BPC101BA | Intro to Microcomputers II: IBM |  |
| + BPC101CA | Intro to Microcomputers III: IBM | 1 |
| BPC110 | Computer Usage \& Applications (3) OR |  |
| CIS105 | Survey of Computer Info. Systems (3) | 3 |
| + BPC125 | Microcomputer Setup \& Maintenance | 1 |
| BPC133AA | Internet/Web Developmt Level I (1) AND |  |
| + BPC133BA | Internet/Web Developmt Level II (1) AND |  |
| + BPC133CA | Internet/Web Developmt Level III (1) OR |  |
| + BPC133DA | Internet/Web Development Level I (3) | 3 |
| + BPC217AM | Advanced MS Access: Database Mgt | 3 |
| CIS109AM | Networking Technology I (2) OR |  |
| 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++ | Career/Work Exp. (any module) (1-3) | 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 COURSES: Credits: 17
BPC/CIS121AE Windows Operating System: Level I ..... 1
BPC114AE Excel: Level I (1) AND

+ BPC114BE Excel: Level II (1) AND
+ BPC114CE 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
+ BPC117CM DBase Mgt: Microsoft Access Level III (1) ORBPC117DM 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: ..... Credits: 6
Select a minimum of 6 credits from the following: ..... 1
BPC101BA Intro to Microcomputers II: IBM ..... 1
BPC101CA Intro to Microcomputers III: IBM ..... 1
BPC106AH MS Outlook: Level I ..... 0.5
BPC106BH MS Outlook: Level II ..... 0.5
BPC110 Computer Usage and Applications (3) OR
CIS105 Survey of Computer Information Systems (3) ..... 3
+ BPC217AM Adv. Microsoft Access: DBase Management ..... 3
BPC224 Project Management MS Project/Windows ..... 3
+ OAS102 Computer Type II: Document Production ..... 3
+ OAS201 Computer Type III: Adv. Doc. Production ..... 3
OAS296++ Cooperative Education (1-3) OR
CWE198++ Career/Work Experience (1-3) ..... 1-3


## Associate in Applied Science Degree \& Certificate Programs

# AUDIO PRODUCTION TECHNOLOGIES 

Certificate of Completion: 5334<br>Audio Production Technologies<br>37-38 CREDITS

DESCRIPTION: The CCL (Certification of Completion) in Audio ProductionTechnologies certificate and degree programoffers 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

| REQUIRED COURSES: | Credits: | 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 Law | 3 |
| MUC110 | Music Business: Recording and Mass Media | 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 ProductionTechnologies certificate and degree programoffers 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 COURSES:

Credits: 37-38

MTC101 Introduction to Music Theory (3) OR
MTC103 Introduction to Aural Perception (2)
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 Law 3
MUC110 Music Business: Recording and Mass Media 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
GENERAL EDUCATION REQUIREMENTS: Credits: 28
CORE
Credits: 15
First-Year Composition
Any approved general education course in the First Year Composition Area

Oral Communication
Any approved general education course in the Oral Communication Area

Critical Reading

+ CRE101 Critical and Evaluative Reading I (3) OR
(Note: Equivalent as indicated by assessment)
Mathematics
Any approved general education course in Mathematics Area
DISTRIBUTION
Credits: 13
Humanities \& Fine Arts
Any approved general education course in the
Humanities and Fine Arts Area
(Note: (MHL140 or MHL145 or MHL153 recommended)
Social and Behavioral Sciences
Any approved general education course in the
Social and Behavioral Sciences Area
Natural Sciences
Any approved general education course in the Natural Sciences 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 PREREQUISITES:

Credits: 3

| + | ENG $101 \quad$ First Year Composition (3) OR |
| ---: | :--- |
| + | ENG107 $\quad$ First Year Composition for ESL (3) OR |
|  | Permission of Division |

REQUIRED COURSES:
Credits: 23
ACC111 Accounting Principles I ..... 3
BPC125 Microcomp. Set Up \& Maintenance ..... 1
BPC/CIS117DM Microsoft Access: DB Management ..... 3
BPC/CIS121AE Windows Operating System: Level I ..... 1
BPC/CIS224 Project Management MS Project for Windows ..... 3
CIS105 Survey Computer Information Systems ..... 3

+ CIS150 Programming Fundamentals ..... 3+ Prog
+ CIS 190 Introduction to Local Area Networks (3) ORMST 140 Microsoft Networking Essentials (3)
+ GBS 233 Business Communication3


## 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.

REQUIRED COURSES:
Credits: 23
ACC111 Accounting Principles I 3
BPC125 Microcomputer Set Up and Maintenance 1
BPC/CIS117DM Microsoft Access: Database Mgt (3) OR
BPC/CIS117AM Database Mgt: MS Access Level I (1) AND
BPC/CIS117AM Database Mgt: MS Access Level II (1) AND
BPC/CIS117AM Database Mgt: MS Access Level III (1) 3
BPC/CIS121AE Windows Operating System: Level I 1
CIS105 Survey Computer Information Systems 3

+ CIS150 Programming Fundamentals 3
$\begin{array}{cll}+ \text { CIS190 } & \text { Introduction to Local Area Networks (3) OR } \\ \text { MST140 } & \text { Microsoft Networking Essentials (3) } & 3\end{array}$
BPC/CIS224 Project Management MS Project for Windows 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.


Computer Systems Maintenance: Credits: 15

+ BPC170 Microcomputer Maintenance I 3
CIS102 Interpersonal \& Customer Service Skills 1
for IT Professionals
CIS/BPC121AB 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
+ CIS298AC Special Projects (3)
Computer Networking: 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
Students must choose and successfully complete one of the following: 3
+ MST244 Microsoft SQL Server Administration (3)


## Associate in Applied Science Degree \& Certificate Programs

CWE198AC Career/Work Experience (3) OR+ CIS296WC Cooperative Education (3) OR+ CIS298AC Special Projects (3)
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:
+ CIS251 Computer Game Development: Level II (3) ..... 6
+ CIS259 Visual Basic Programming II (3) ..... 6
+ CIS262AC Visual C++: Level II (3) ..... 6
+ CIS262AD C\#: Level II (3) ..... 6
+ CIS163AA Java Programming I (3) AND
+ CIS263AA Java Programming II (3) ..... 6
Web Development: ..... Credits: 15
CIS/BPC120DF Microcomp Graphics: Adobe Photoshop (3) ORCIS/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
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 CWE198AC Career/Work Experience (3) OR
+ CIS296WC Cooperative Education (3) OR
+ 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.

GENERAL EDUCATION REQUIREMENTS:
Credits: 25-27

## CORE

Credits: 15-17

## 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)
Oral Communication

Oral Communication area.

Critical Reading

+ CRE101 Critical and Evaluative Reading I (3) OR
+ CRE111 Critical Reading for Business and Industry (3)
Mathematics
+ MAT120 Intermediate Algebra (5) OR
+ MAT121 Intermediate Algebra (4) OR
+ MAT122 Intermediate Algebra (3) OR 3-5
Satisfaction of a higher-level Mathematics course
DISTRIBUTION
Credits: 10
Humanities and Fine Arts
Any approved general education course from the
Humanities and Fine Arts area.
Social and Behavioral Sciences
ECN111 Macroeconomic Principles (3) OR
ECN112 Microeconomic Principles (3)
Natural Sciences
Any approved general education course from the
Natural Sciences area.


## Certificate of Completion: 5869 COMPUTER NETWORKING TECHNOLOGY <br> 17 credits

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.

## REQUIRED COURSES:

Credits: 17

| CIS105 | Survey of Computer Information Systems | 3 |
| :---: | :---: | :---: |
| CIS/BPC121AB Microsoft Command Line Operations |  |  |
| + CIS270 | Essentials of Network and Information Security | 3 |
| + CIS190 | Introduction to Local Area Networks (3) OR |  |
| MST140 | Microsoft Networking Essentials (3) | 3 |
| MST150++ | Microsoft Windows Professions (any module) |  |
| + MST152++ | Microsoft Windows Professions (any module) |  |

## Certificate of Completion: 5867 <br> COMPUTER SYSTEMS MAINTENANCE <br> 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 COURSES:

Credits: 16

$$
\begin{aligned}
& + \text { BPC170 Computer Maintenance I: A+ Prep } \\
& \text { CIS102 Interpersonal \& Customer Service Skills } \\
& 12 \text { CREDITS }
\end{aligned}
$$13

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 COURSES: | 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/CIS121AB MS DOS Operating System |  | 1 |
| + BPC170 | Computer Maintenance I: A+ Prep | 3 |
| + BPC273 | Advanced Server Computer Maintenance: |  |
|  | Server+ Prep | 3 |

REQUIRED COURSES:
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)

RESTRICTED ELECTIVES:
Credits: 6

Server+ Prep

| CIS105 | Survey of Computer Information Systems | 3 |
| :--- | :--- | ---: |
| +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: 18
CIS 120DC Computer Graphics: Macromedia Flash 3
BPC/CIS 120DF Comp. Graph: Adobe Photoshop (3) OR
BPC/CIS 120AF Comp. Graph: Adobe Photoshop I (1) AND
BPC/CIS 120BF Comp. Graph: Adobe Photoshop II (1) AND
BPC/CIS120CF Comp. Graph: Adobe Photoshop III (1) 3
BPC/CIS133DA Internet/Web Development Level I 3

+ CIS166++ any module 3
+ CIS233DA Internet/Web Development Level II 3
+ CIS235 e-Commerce 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 COURSES: ..... Credits: 30
CIS 105 Survey Computer Info Systems ..... 3
CIS/BPC 117DM Microsoft Access: Database Management ..... 3
CIS 120DC Computer Graphics: Macromedia Flash ..... 3
CIS/BPC 120DF Computer Graphics: Adobe Photoshop (3) OR
CIS/BPC 120AF Comp. Graphics: Adobe Photoshop I (1) AND+ CIS/BPC 120BF Comp. Graph: Adobe Photoshop II (1) AND+ CIS/BPC 120CF Comp. Graph: Adobe Photoshop III (1)3

# Associate in Applied Science Degree \& Certificate Programs 

CIS 126AA UNIX Operating System: Level I
CIS/BPC 133DA Internet/Web Development Level I

+ CIS 166++ any module
+ CIS 233DA Internet/Web Development Level II
+ CIS 234 XML Application Development
+ CIS 235 e-Commerce
+ CIS 290AB Comp. Information Systems Internship (2) OR
+ CIS 296WB Cooperative Education (2) OR
CIS 298AB Special Projects (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, costeffective 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 156 Human Biology for Allied Health (4) OR
BIO 181 General Biology (Majors) I (4)

PROGRAM COREQUISITE: CPR Certification for Health Care Providers through the American Red Cross or the American Heart Association.

## REQUIRED COURSES:

Credits: 40-44
Area Note: Students selecting BIO201 in the Required Courses area must complete BIO156 or BIO181 in the Program Prerequisites area.

|  | BIO 160 | Intro. to Human Anatomy \& Physiology (4) OR |
| ---: | :--- | :--- |
| + | BIO 201 | Human Anatomy \& Physiology I (4) AND |
| + BIO 202 | Human Anatomy \& Physiology II (4) | $4-8$ |
|  | BPC 110 | Computer Usage and Applications (3) OR |
|  | BPC 101AA Introduction to Microcomputers I: IBM (1) AND |  |
| + BPC 101BA Introduction to Microcomputers II: IBM (1) AND |  |  |
| + BPC 101CA Introduction to Microcomputers III: IBM (1) OR |  |  |
|  | BPC/CIS114++ Spreadsheet Level I (any module) (1) AND |  |
|  | BPC/CIS 117++ Database Mgt Level I (any module) (1) AND |  |
| + | BPC/OAS130++ Personal Word Processing (any module) (1) | 3 |

FON 104 Cert. in Food Service Safety \& Sanitation 1

FON 125 Intro. to Profession Nutrition \& Dietetics 1
FON 142AB Applied Food Principles 3

+ FON 207 Intro. to Nutrition Services Management 3
+ FON 225 Research in Complementary \& Alternative 3
+ FON 241 Principles of Human Nutrition 3
+ FON 242 Introduction to Planning Therapeutic Diets 3
+ FON 244AA Practicum I: Food Service Management 2
+ FON244AB Practicum I: Food Service Management-Lab 3
+ FON 245AA Practicum II: Medical Nutrition Therapy 2
+ FON 245AB Practicum II: Medical Nutrition Therapy-Lab 2
+ FON 246AA Practicum III: Community Nutrition 2
+ FON 246AB Practicum III: Community Nutrition-Lab 2
+ HCC145AA Med. Terminology for Health Care Workers I 1
PED 115 Lifetime Fitness 2
GENERAL EDUCATION REQUIREMENTS: Credits: 25-27
CORE:
Credits: 15-17
First-Year Composition
+ ENG101 First-Year Composition (3) OR
+ ENG107 First-Year Composition for ESL (3) AND
+ ENG102 First-Year Composition (3) OR
+ ENG108 First-Year Composition for ESL (3) OR
+ ENG111 Technical Writing (3)
Oral Communication
COM 100 Introduction to Human Communication (3) OR
COM 110 Interpersonal Communication (3) OR
+ COM 225 Public Speaking (3) OR
+ COM 230 Small Group Communication (3)


## Critical Reading

+ CRE 101 Critical and Evaluative Reading I (3) OR
+ CRE 111 Critical Reading for Business/Industry (3) OR
Equivalent as indicated by assessment


# Associate in Applied Science Degree \& Certificate Programs 

Mathematics

+ 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 mathematics course
DISTRIBUTION:
Credits: 10
Humanities and Fine Arts
Any approved general education course in the
Humanities \& Fine Arts area
Social and Behavioral Sciences
PSY 101 Introduction to Psychology (3) OR
SOC 101 Introduction to Sociology (3)
Natural Sciences

$$
4
$$

+ 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.

## 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 | 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.

$$
\begin{array}{ll}
\text { CFS +++ } & \text { any Child \& Family Studies course } \\
\text { ECH+++ } & \text { any Early Childhood Education course } \\
\text { EDU++++ } & \text { any Education course } \\
\text { EED+++ } & \text { any Early Education course } \\
\text { ITD+++ } & \text { any Infant/Toddler Development course }
\end{array}
$$

Associate in Applied Science: 3836

## EARLY CHILDHOOD EDUCATION <br> 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 |
| CFS 282 | Mainstreaming the Young Child w/Disablty | 1 |
| + CFS 285AA | Family-School Interaction: Preschool | 1 |
| ECH 214 | Preschool Education | 1 |
| ECH 270 | Observing Young Children | 3 |
| 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
Area Notes: Select a minimum of 9 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

GENERAL STUDIES REQUIREMENTS
Credits: 25

## CORE:

Credits: 15

## First-Year Composition

| + ENG 101 | First-Year Composition (3) OR |
| :--- | :--- |
| + ENG 107 | First Year Composition for ESL (3) AND |
| + ENG 102 | First-Year Composition (3) OR |
| + ENG 108 | First Year Composition for ESL (3) |

## Oral Communication

COM 110 Interpersonal Communication (3) OR
COM 230 Small Group Communication (3)
Critical Reading

+ CRE 101 Critical and Evaluative Reading (3) OR equivalent as indicated by assessment

Mathematics
Any approved general education course in the Mathematics area.

## DISTRIBUTION:

Credits: 10
Humanities \& Fine Arts
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.

Social \& Behavioral Sciences
CFS157 Marriage and Family Life (3) OR
Any approved general education course in the Social \&
Behavioral Sciences area.
Natural Sciences
Any approved general education course in the Natural Sciences area.

## EMERGENCY MANAGEMENT

## Certificate of Applied Science: 5304 <br> Emergency Management <br> 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 ManagementPlanner,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 Terrorism 3
AJS/FSC146 Disaster Recovery Operations 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 ManagementPlanner, 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
REQUIRED COURSES: ..... Credits: 2
AJS101 Introduction to Criminal Justice ..... 3
AJS/FSC139 Emergency Response to Terrorism ..... 3
AJS/FSC146 Disaster Recovery Operations ..... 3
AJS/FSC147 Emergency Preparedness ..... 3
AJS/FSC148 Fundamentals of Emergency Management ..... 3
AJS/FSC149 Hazard Mitigation ..... 3
AJS/FSC224 Incident Command Systems ..... 3
FSC105 Hazardous Materials/First Responder ..... 3
RESTRICTED ELECTIVES: ..... Credits: 15-18
AJS 195 International and Domestic Terrorism ..... 3
AJS225 Criminology ..... 3
AJS270 Community Relations ..... 3
AJS275 Criminal Investigation I ..... 3
FSC211 Fundamentals of Flammable Hazardous Materials 3
FSC212 Dangerous and Explosive Hazardous Materials ..... 3
Approved courses recommended OR
Any approved AJS/FSC course
FREE ELECTIVES: None
GENERAL EDUCATION REQUIREMENTS: ..... Credits: 25-27
CORE ..... Credits: 15-17
First-Year Composition

+ ENG101 First-Year Composition (3) AND
+ ENG102 First-Year Composition (3) ..... 6
Oral Communication ..... 3
Any approved general education course in theOral Communication area
Critical Reading ..... 3
Any approved general education course in the Critical Reading area
Mathematics ..... 3-5
+ MAT102 Mathematical Concepts/Applications OR higher
DISTRIBUTION ..... Credits: 10
Humanities \& Fine Arts
AJS 123 Ethics and the Administration of Justice3
Social and Behavioral Sciences
AJS258 Victimology and Crisis Management3
Natural Sciences4
Any approved general education course in the Natural Sciences area


# EMERGENCY MEDICAL TECHNOLOGY 

Certificate of Completion: 5143

BASIC EMERGENCY MEDICAL TECHNOLOGY<br>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
8


# Certificate of Completion: 5513 ADVANCED EMERGENCY MEDICAL TECHNOLOGY (PARAMEDIC) <br> 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.
PROGRAM PREREQUISITES: ..... Credits: 8

+ Basic Emergency Medical Technology Certificate (5268) ..... 8
REQUIRED COURSES: ..... Credits: 34.5
+ EMT245 Trauma Management I ..... 2
+ EMT272AA Advanced Emergency Medical Technology ..... (12.5)
AND
+ EMT272AB Adv. Emergency Medical Technology (12.5) 25
+ EMT272LL Adv. Emergency Medical Technology Practicum 7.5
RESTRICED ELECTIVES: Credits: 3-4
SPA101 Elementary Spanish I, recommendedEMT120 Spanish for Emergency-Care Providers1
+ EMT165 Pediatric Educ for Prehospital Providers: Basic ..... 2
+ EMT240 Advanced Cardiac Life Support ..... 2
+ EMT242 Pediatric Advanced Life Support ..... 1
+ EMT246 Trauma Management II ..... 4
+ SPA101 Elementary Spanish I ..... 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: Credits: 25-42+ Basic Emergency Medical Technology Certificate (8) OR
Intermediate Emergency Med. Technology Certificate (25) ..... 8-25

+ BIO201 Human Anatomy and Physiology I ..... 4
+ BIO202 Human Anatomy and Physiology II ..... 4
+ CRE101 Critical and Evaluative Reading I (3) OR+ CRE111 Critical Reading for Business and Industry (3) OREquivalent as indicated by assessment3
+ MAT102 Mathematical Concepts/Applications (3) OREquivalent ORSatisfactory score on District placement exam3
PSY101 Introduction to Psychology ..... 3
REQUIRED COURSES: Credits: ..... 42.5
+ EMT235 Emergency Cardiac Care ..... 3
+ EMT236 Pharmacology in an Emergency Setting ..... 3
+ EMT/FSC238 Vehicular Extrication and Patient Stabilization ..... 2
+ EMT245 Trauma Management I ..... 2
+ EMT272AA Advanced Emergency Med. Technology (12.5)AND+ EMT272AB Advanced Emergency Med. Technology (12.5)25


# Associate in Applied Science Degree \& Certificate Programs 

+ EMT272LL Adv. Emergency Med. Technology Practicum 7.5
RESTRICED ELECTIVES: Credits: 9
SPA101 Elementary Spanish I, recommended
+ EMT116 Emergency Medical Communications (EMD) 1.5
EMT120 Spanish for Emergency-Care Providers 1
+ EMT130 Adv. Life Support (ALS) Assist for Basic EMTs 1
+ EMT215 Stress and Emergency Services Professionals 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
GENERAL EDUCATION:
Credits: 12
CORE: Credits: 9
First-Year Composition
Any approved general education courses in the
First-Year Composition area.
Oral Communication
COM100 Introduction to Human Communication
Critical Reading
Met by CRE101 or CRE111, in Program Prerequisite area
Mathematics
Met by MAT102, in Program Prerequisite area.
DISTRIBUTION: Credits: 3
Humanities and Fine Arts
Any approved general education course in the
Humanities and Fine Arts area.
Social and Behavioral Sciences
Met by PSY101, in Program Prerequisite area.
Natural Sciences
Met by BIO201, in Program Prerequisite area.


## FIRE SCIENCE

Certificate of Completion: 5486

BASIC FIRE FIGHTER<br>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

REQUIRED COURSES: ..... Credits: 21
FSC105 Hazardous Materials/First Responder ..... 3
FSC108 Fundamentals of Fire Prevention ..... 3
FSC113 Introduction to Fire Suppression ..... 3

## Associate in Applied Science Degree \& Certificate Programs

FSC131
FSC202

+ FSC204
+ FSC208

Introduction to Urban Technical Rescue

## RESTRICED ELECTIVES:

Credits: 16
Students should select 16 credit hours from the following courses in consultation with a department advisor.

+ 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
+ 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
FSC135 Fire Service Information Management
FSC152 Engine Company Officer
+ 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/LAS206 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 COURSES: | 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 Construction | 3 |

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
Supervisory Training for Firefighters
FSC204 Firefighting Tactics and Strategy

+ FSC208 Firefighter Safety and Building Construction

RESTRICED ELECTIVES:
Credits: 18
Students should select 18 credit hours from the following courses in consultation with a department advisor.

ACC111 Accounting Principles I (3) AND

+ ACC112 Accounting Principles II (3) AND
+ ACC212 Managerial Accounting (3) OR
+ EMT/FSC104 Basic Emergency Medical Technology 8
+ EMT/FSC238 Vehicular Extrication and Patient Stabilization 2
$\begin{array}{lll}\text { FSC101++ } & \text { Introduction to Fire Service Selection (3) OR } \\ & \text { Modular Equivalents }\end{array}$
+ 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
$\begin{array}{ll}\text { FSC134 } & \text { Fitness \& Conditioning/Firefighters (3) OR } \\ & \text { Modular Equivalents }\end{array}$
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/LAS206 Business Law (UCC) 3
GENERAL EDUCATION REQUIREMENTS: Credits: 25
CORE: Credits: 15
First-Year Composition
+ Any approved general education courses in the
First Year Composition area.
Oral Communication
COM100 Introduction to Human Communication
Critical Reading
+ Any approved general education course in the Critical Reading area.

Mathematics

+ Any approved general education course in the Mathematics area.

DISTRIBUTION: Credits: 10
Humanities and Fine Arts
Any approved general education course in the Humanities and Fine Arts area.

Social and Behavioral Sciences
Any approved general education course in the Social and Behavioral Sciences area.
Recommend SOC101 OR SOC140.
Natural Sciences

+ Any approved general education course in the Natural Sciences area.
Recommend BIO101 OR CHM130 AND CHM130LL
OR PHY101.


# Associate in Applied Science: 3056 <br> FIRE SCIENCE TECHNOLOGY <br> 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



First-Year Composition
ENG101 First-Year Composition (3) OR
ENG107 First-Year Composition for ESL (3) AND
ENG102 First-Year Composition (3) OR
ENG111 Technical Writing (3)
Oral Communication
$\begin{array}{ll}\text { COM100 } & \text { Introduction to Human Communication (3) OR } \\ \text { COM110 } & \text { Interpersonal Communication (3) OR } \\ \text { COM225 } & \text { Public Speaking (3) OR } \\ \text { COM230 } & \text { Small Group Communication (3) }\end{array}$
Critical Reading
CRE101 Critical and Evaluative Reading I (3) OR
CRE111 Reading for Business, and Industry (3) OR equivalent by assessment

Mathematics
MAT102 Mathematical Concepts/Applications (3) OR
MAT120 Intermediate Algebra (5) OR

MAT122 Intermediate Algebra (3) OR equivalent as indicated by assessment OR approved math courses which are required in a specific AAS program OR satisfactory completion of a higher mathematics course.

DISTRIBUTION: Credits: 10
Humanities and Fine Arts
Any approved general education course in the
Humanities and Fine Arts area
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.

$$
\begin{array}{ll}
\text { BIO100 } & \text { Biology Concepts (4) OR } \\
\text { CHM130 } & \text { Fundamental Chemistry (3) AND } \\
\text { CHM130LL } & \text { Fundamental Chemistry Lab (1) OR } \\
\text { PHY101 } & \text { Introduction to Physics (4) }
\end{array}
$$

## 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


## Associate in Applied Science Degree \& Certificate Programs

| 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: | Credits: | 24 |
| :--- | :--- | ---: |
| ACC 111 | Accounting Principles I | 3 |
| + | ACC 112 | Accounting Principles II |

RESTRICTED ELECTIVES:
Credits: 13-15
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 Information Systems | Cred |
| :--- | :--- |
| CIS102 | Interpersonal \& Customer Service Skills (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 | Management \& Leadership (3) |
| :--- | :--- |
| MGT296++ | Special Project /Coop Ed (1-3) |
| MKT267 | Principles of Salesmanship (3) |

Finance Credits: 13
GBS103 Principles of Banking (3)
GBS132 Personal \& Family Financial Security (3)
GBS206 Business Law (3)
GBS261 Investments I (3)
IBS104 International Finance (1)
General Business Credits: 15

| IBS 101 | Introduction to International Business (3) |
| :--- | :--- |
| MGT229 | Management and Leadership (3) |
| MKT101 | Introduction to Public Relations (3) |
| MKT267 | Principles of Salesmanship (3) |
| MKT271 | Principles of Marketing (3) |

International Business
Credits: 15
IBS101 Introduction to International Business (3)
IBS102 International Marketing (2)
IBS104 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, GER,
ITA, JPN, SPA, etc) (3)

| Management | Credits: 15 |
| :---: | :--- |
| MGT175 | Business Organization \& Management (3) |
| MGT229 | Management \& Leadership (3) |
| MGT251 | Human Relations In Business (3) |
| MGT276 | Personnel/Human Resources in Managemt (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 Business
Credits: 15
MGT253 Owning \& Operating a Small Business (3)
MKT267 Principles of Salesmanship (3)
MKT271 Principles of Marketing (3)
SBS213 Hiring and Managing Employees (1)
SBS214 Small Business Customer Relations (1)
SBS220 Internet Marketing for Small Business (2)
SBS230 Financial \& Tax Mgt for Small Bus. (2)

GENERAL EDUCATION REQUIREMENTS: Credits: 24-27
CORE:
Credits: 15-17
First Year Composition

+ Any approved general education course from the
First-Year Composition area.
Oral Communication
COM 100 or COM 110 or + COM 225 or + COM 230


## Associate in Applied Science Degree \& Certificate Programs

Critical Reading ..... 3
Any approved general education course from the Critical Reading

garea.
Mathematics ..... 3-5
Any approved general education course from the Mathematics area.
DISTRIBUTION ..... Credits: 9-10
Humanities \& Fine Arts ..... 2-3
Any approved general education course from theHumanities \& Fine Arts area.
Natural Sciences4
Any approved general education course from the
Natural Sciences area.
Social \& Behavioral Sciences ..... 3
IBS109 Cultural Dimension for Int'l Business (3) OR SBU200 Society \& Business (3)
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 COURSES:

Credits: 16-17

$$
\begin{array}{lll}
\text { IBS 102 } & \text { International Marketing } & 2 \\
\text { IBS 108 } & \text { Basics of Import/Export Operations } & 2 \\
\text { IBS 110 } & \text { International Payments and Collections } & 1 \\
\text { IBS 111 } & \text { Risk Management and Loss Control } & 1 \\
\text { IBS 112 } & \text { Export Licensing and Regulations } & 1 \\
\text { IBS 113 } & \text { United States Customs and Duties } & 1 \\
\text { IBS 114 } & \text { Int'l Transportation and Distribution Systems } & 1 \\
\text { IBS 121 } & \text { Export Case Studies } & 2 \\
\text { Choose one course from the following IBS courses: } \\
\text { IBS 150 } & \text { Mexico, Central \& South America: Int'l } & 2 \\
& \text { Business Environment (2) } \\
\text { IBS 151 } & \text { Western Europe: International Business Env. (2) } \\
\text { IBS 152 } & \text { Japan: International Business Environment (2) } \\
\text { IBS 153 } & \text { Central \& Eastern Europe: Int'l Business Env. (2) } \\
\text { IBS 154 } & \text { Pacific Rim Countries: Int'l Business Env. (2) }
\end{array}
$$

Any Foreign Language Course: ..... 3-4
(Prefixes: ARB, CHI, FRE, GER, GRK,SPA)
RESTRICTED ELECTIVESCredits: 3
MGT 135 Purchasing Management (3)
MGT 175 Business Organization and Management ..... (3)2.3
REQUIRED COURSES:+ CIS 235 -Com3
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 Business ..... 3
IBS 121 Export Marketing Case Studies ..... 2
MGT 175 Business Organization \& Management ..... 3
Any Foreign Language Course Sequence: ..... 6-8
(ie: SPA101 \& 102 or SPA101AA \& 102AA) (Prefixes: ARB, CHI,FRE, GER, GRK, HEB, ITA, JPN, POR, RUS, SPA)
JOURNALISM
Certificate of Completion: 5466
JOURNALISM
18 CREDITS
DESCRIPTION: The Certificate of Completion in Journalismprepares students to work in the publishing industry whether theyhave a bachelor's degree in another discipline or are just beginningtheir career path in journalism. The CCL includes journalism coursesrequired by journalism schools throughout the state and country andrequires an internship in journalism and a juried portfolio of publishedarticles to complete the certificate.
REQUIRED COURSES ..... 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:JRN 125Photo Editing (3)
JRN 133 Development of Small Publications (3)
+ JRN 212 Broadcast Writing (3)


# MEDIA ARTS 

## Certificate of Completion: 5881 <br> MEDIA ARTS: COMPUTER ART ILLUSTRATION <br> 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)
+ ART 289 Computer Illustration


# MICROSOFT RELATED PROGRAMS 

## Certificate of Completion: 5473 <br> 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.

$$
\text { BPC/CIS121AB MS-DOS Operating System } 1
$$

CIS102 Interpers. \& Cust. Service Skills for IT Prof. 1

| REQUIRED COURSES: | 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 <br> MICROSOFT PRODUCT SPECIALIST

13-15 CREDITS

DESCRIPTION: This program prepares students for industryrecognized 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 <br> Credits: 3 <br> CIS 105 Survey of Computer Information Systems (3) <br> OR Permission of Department or Division

## REQUIRED COURSES:

Credits: 13-15

|  | BPC/CIS 121AB | 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 <br> MICROSOFT SYSTEMS ENGINEER <br> <br> 32-33 credits 

 <br> <br> 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 $105 \begin{aligned} & \text { Survey of Computer Information Systems (3) } \\ & \text { OR permission of department or division }\end{aligned}$
REQUIRED COURSES:
Credits: 32-33
BPC/CIS 121AB 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)
+ MST 150++ any MST150 course
+ MST 152++ any MST152 course
+ MST 155 Implementing Windows Ntwk Infrastructure
+ MST 157 Implementing Windows Directory Services
+ MST 232 Managing Windows Network Environment
+ MST 244 Microsoft SQL Server Administration
+ MST 253 Designing a Microsoft Windows 2000
Directory Services Infrastructure (3) OR
+ MST 259 Designing Windows Network Security (3)
+ MST 255 Designing Windows Network Infrastructure

Associate in Applied Science: 3778

## MICROSOFT NETWORKING

 TECHNOLOGY62 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
OR permission of department or division.

## REQUIRED COURSES: <br> Credits: 24-25

BPC/CIS 121AB MS-DOS Operating System 1

+ BPC 170 Computer Maintenance I: A+ Prep 3
CIS 102 Interpersonal \& Customer Service Skills for IT Professionals

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)
+ 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:
Credits: 13
For MST150++ and MST152++, select a different MS Windows version than the one selected for Required Courses.

BPC 110 Computer Usage \& Applications (3) OR
CIS 105 Survey of Computer Information Systems (3)

| + 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 Computing | $1-3$ |

Students may select no more than four (4) credits combined from CIS282AA-AC, CIS290AA, AB, AC and CIS296WA-WD courses.

+ CIS 282++ Volunteerism for Computer Info Systems: A
Service Learning Experience (any module) (1-3)


## OR

+ CIS 290++ Comp. Info. Syst. Internship any module (1-3) OR
+ CIS 296++ Cooperative Education any module (1-4) 1-4
+ CNT 150 Cisco Networking Router Technologies 3
+ MST 141 Supporting MS Windows Desktop Oper Syst 3
+ MST 142 Supporting Appl. on MS Windows Desktop Operating Systems3
+ MST 150++ Microsoft Windows Professional (any course) 3
+ MST 152++ Microsoft Windows Server (any course) 4
+ MST157 Implementing Windows Directory Services 3
+ MST 232 Managing a Windows Network Environment 3
+ 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 Windows 2000
+ MST 254 Microsoft SQL Server Design \& Implem. 3
+ MST 255 Designing Windows Network Infrastructure 3
+ MST 259 Designing Windows Network Security 3
+ MST 298++ Special Projects any module 1-3


## GENERAL EDUCATION REQUIREMENTS

CORE:
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)


## Oral Communication

Any approved general education course in the
Oral Communication area.
Critical Reading

+ CRE101 Critical \& Evaluative Reading I (3) OR
Equivalent as indicated by assessment
Mathematics
Any approved general education course from the Mathematics area.
DISTRIBUTION:
Credits: 10
Humanities \& Fine Arts
Any approved general education course from the
Humanities \& Fine Arts area.

Social \& Behavioral Sciences
Any approved general education course from the Social \& Behavioral Sciences area.

Natural Science
Any approved general education course from the Natural Science Area.

## 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 ${ }^{\text {TM }}$ 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 <br> MICROSOFT APPLICATIONS DEVELOPMENT <br> 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

## Associate in Applied Science Degree \& Certificate Programs

and/or corequisites.


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 departmentlevel 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.
PROGRAM PREREQUISITES Credits: 6
CIS 105 Survey of Computer Information Systems 3

+ CRE101 Critical and Evaluative Reading (3) OR 3
Equivalent as indicated by assessment OR Permission of Department or Division

REQUIRED COURSES:
Credits: 22
BPC/CIS133DA Internet/Web Development Level I or
BPC/CIS133AA Internet/Web Development Level I-A and

+ BPC/CIS133BA Internet/Web Development Level I-B and
+ BPC/CIS133CA Internet/Web Development Level I-C 3
CIS102 Interpersonal \& Cust. Service Skills for 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 Design (2) 2
+ MST172 Visual Basic .NET Web Application Development 4
+ MST176 Visual Basic .NET XML Web Services Dev. 3
+ MST254 Microsoft SQL Server Design and Implementn 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) OR
CNT140 Cisco Networking Basics (4) OR
MST140 Microsoft Networking Essentials (3) 3-4
+ CIS225AB Object-Oriented Analysis and Design 3
+ CIS235 e-Commerce
Students may select no more than four (4) credits combined from CIS290AA-AC and CIS296WA-WD courses.
+ CIS290A+ Computer Information Systems Internship (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 STUDIES REQUIREMENTS Credits: 22-24


## CORE:

Credits: 12-14
First-Year Composition

+ ENG 101 First-Year Composition (3) AND
+ ENG 102 First-Year Composition (3) OR
+ ENG 107 First-Year Composition for ESL (3) AND
+ ENG 108 First-Year Composition for ESL (3)
Oral Communication
Any approved general studies course in the Oral Communication area.

Critical Reading

+ Met by CRE101 in Program Prerequisites
Mathematics
+ 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
Humanities \& Fine Arts
Any approved general studies course in the
Humanities \& Fine Arts area.
Social and Behavioral Sciences
Any approved general studies course in the Social and Behavioral Sciences area.

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 <br> MICROSOFT SYSTEMS ADMINISTRATION <br> 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 COURSES:
Credits: 20-21
BPC/CIS 121AB MS-Dos Operating System ..... 1

+ BPC 170 Computer Maintenance I: A+ Prep ..... 3
+ CIS 190 Intro. to Local Area Networks (3) ORCNT 140 Cisco Networking Fundamentals (4) ORMST 140 Microsoft Networking Essentials (3)3-4
+ MST 150++ any MST150 course ..... 3
+ MST 152++ any MST152 course ..... 4
+ MST 155 Implementing Windows Network Infrastructure ..... 3
+ MST 232 Managing a Windows Network Environment ..... 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 <br> 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.
REQUIRED COURSES:ACC 111 Accounting Principles I3
BPC 110 Computer Usage \& Applications (3) OR
CIS 105 Survey of Computer Info. Systems (3) ..... 3
GBS 151 Introduction to Business ..... 3

+ GBS 233 Business Communication ..... 3
MGT 175 Business Organization \& Management ..... 3
MGT 253 Owning \& Operating A Small Business ..... 3
MGT 229 Management and Leadership I ..... 3
MGT 251 Human Relations in Business ..... 3
MGT 296++ Cooperative Education (any module) ..... 1-3
MKT 271 Principles of Marketing


# MUSIC BUSINESS 

## Certificate of Completion: 5258

## MUSIC BUSINESS <br> 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.

REQUIRED COURSES:
Credits: 37
ACC109 Accounting Concepts (3) OR
ACC111 Accounting Principles I (3)
BPC128 Introduction to Desktop Publishing 1
CIS131AA Doing Business on the Internet 1

+ COM259 Communication in Business and Professions 3
GBS151 Introduction to Business 3
MGT253 Owning and Operating a Small Business 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 Media 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


## Associate of Applied Science: 3017 <br> MUSIC BUSINESS <br> 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 COURSES:
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 Professions 3
GBS151 Introduction to Business 3
MGT253 Owning and Operating a Small Business 3
MKT271 Principles of Marketing 3
MTC101 Introduction to Music Theory OR 3
Higher Level
MUC109 Music Business: Merchandising \& the Law 3
MUC110 Music Business: Recording \& Mass Media 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+++ Any approved MHL prefixed course 3
GENERAL EDUCATION REQUIREMENTS: Credits: 25
CORE:
Credits: 15
First-Year Composition
+ ENG101 First-Year Composition (3) AND
+ ENG102 First-Year Composition (3)
Oral Communication
Any approved general education course in the Oral Communication Area

Critical Reading
Any approved general education course in the Critical Reading Area
Mathematics
Any approved general education course in the Mathematics Area
DISTRIBUTION
Credits: 10
Humanities \& Fine Arts
Any approved general education course in the Humanities and Fine Arts Area

Social and Behavioral Sciences
Any approved general education course in the Social and Behavioral Sciences Area
Natural Sciences
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 <br> FOR THE NURSING PROGRAM:

1. Students must submit a completed Health and Safety Documentation Checklist and maintain current status throughout the program.
2. Students must submit a CPR card for Health Care Provider and maintain current status throughout the program.
3. 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.

THENURSE ASSISTINGPATHWAY: 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<br>HCC130AD Communication and Teamwork in<br>Health Care Organizations (0.5) AND<br>HCC130AE Legal Issues in Health Care (0.5) AND<br>HCC130AF Decision Making in the Health Care Setting (0.5) 3<br>HCC145AA Medical Terminology for Health Care Workers I 1<br>+ NUR156 Nurse Assisting<br>2<br>+ 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.

$$
\begin{array}{llr}
\text { BIO156 } & \text { Introductory Biology for Allied Health (4) OR } & \\
\text { BIO181 } & \text { General Biology (Majors) I (4) OR } & 0-4 \\
\text { + BIO201 } & \text { One year of high school biology } & 4 \\
\text { + BIO202 } & \text { Human Anatomy and Physiology I } & 4 \\
\text { + BIO205 } & \text { Microbiology } & 4 \\
\text { + CHM130 } & \text { Fundamental Chemistry (3) AND } & \\
\text { + CHM130LL } & \text { Fundamental Chemistry Laboratory (1) OR } & \\
& \text { One year of high school chemistry } & 0-4 \\
\text { + CRE101 } & \begin{array}{l}
\text { Critical and Evaluative Reading I (3) OR }
\end{array} & \\
& \text { Equivalent by assessment } & 0-3 \\
\text { + ENG101 } & \text { First-Year Composition OR } & \\
\text { + ENG107 } & \text { First-Year Composition for ESL } & 3 \\
\text { + MAT120 } & \text { Intermediate Algebra (5) OR } & \\
\text { + MAT121 } & \text { Intermediate Algebra (4) OR } & \\
\text { + MAT122 } & \text { Intermediate Algebra (3) OR } & \\
& \text { Higher Level Math Course } & 3-5
\end{array}
$$

REQUIRED COURSES:
Credits: 46
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
+ NUR231 Nursing Process/Critical Thinking III 4
+ NUR237 Pharmacology \& Medication Administration III 1
+ NUR239 Nursing Science III 5
+ NUR241 Nursing Process/Critical Thinking IV 4
+ NUR249 Nursing Science IV 6
PSY101 Introduction to Psychology 3
RESTRICTED ELECTIVES: None.
GENERAL EDUCATION REQUIREMENTS: Credits: 5
CORE:
Credits:
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)
Oral Communication
Waived.
Critical Reading
Met by CRE101 in Program Prerequisites area.

```
Mathematics
    Met by MAT120, or MAT121, or MAT122 OR
    Higher Level Math Course in Program Prerequisites area.
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## DISTRIBUTION:

```
Humanities/Fine Arts
Any approved course in the Humanities and Fine Arts area.
Natural Science
Met by BIO201 and BIO202 in Program Prerequisites areas.
Social and Behavioral Sciences
Met by PSY 101 in Required Courses area.
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## Certificate of Completion: 5957

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PRACTICAL NURSING
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## 44-57 CREDITS

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

$$
\begin{array}{rlr}
\text { BIO156 } & \text { Introductory Biology for Allied Health (4) OR } & \\
\text { BIO181 } & \text { General Biology (Majors) I (4) OR } & \\
& \text { One year of high school biology } & 0-4 \\
+ \text { BIO201 } & \text { Human Anatomy and Physiology I } & 4 \\
+ \text { BIO202 } & \text { Human Anatomy and Physiology II } & 4
\end{array}
$$

| + BIO205 | Microbiology | 4 |
| :--- | :--- | ---: |
| + CHM130 | Fundamental Chemistry (3) AND |  |
| + 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 |  |
|  |  |  |
| + MAT120 | Intermediate Algebra (5) OR |  |
| + MAT121 | Intermediate Algebra (4) OR |  |
| + MAT122 | Intermediate Algebra (3) OR |  |
|  | Higher Level Math Course |  |
|  |  |  |
| REQUIRED COURSES: |  |  |
| HCC145AA | Medical Terminology for Health Care Workers I | 26 |
| + 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

# Associate in Applied Science Degree \& Certificate Programs 

# 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, http://healthcare.maricopa.edu/ healthcarecourses.php 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 <br> 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 | Computer Usage and Application (3) OR |  |
| CIS105 | Survey of Computer Information Systems (3) | 3 |
| GBS110 | Human Relations in Business and Industry (3) OR |  |
| MGT251 | Human Relations in Business (3) | 3 |
| GBS151 | Introduction to Business | 3 |
| + GBS233 | Business Communication | 3 |
| MGT175 | Business Organization and Management (3) OR |  |
| TQM240 | Project Managemt in Quality Organizations (2) | $2-3$ |
| MGT101 | Techniques of Supervision (3) OR |  |
| MGT229 | 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


## REQUIRED COURSES:

Credits: 25-26
BPC/CIS117DM Microsoft Access: DBase Management (3) OR BPC/CIS117AM Dbase Management: MS Access - Level I (1) AND

+ BPC/CIS117BM Dbase Management: MS Access - Level II (1) AND
+ 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)


## Associate in Applied Science Degree \& Certificate Programs

```
+ CIS150++ Any Programming Fundamentals (3)
Select 2 of the following 3 courses for a total of 6 credits:
+ 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) 3-4
+ CIS225++ Any Analysis and Design course (3)
+ GBS233 Business Communication
Note: ENG101 or ENG107 with a grade of "C" or better or permission of department/division are prerequisite to GBS233.
```

RESTRICED ELECTIVES: None

## Associate in Applied Science: 3844 <br> PROGRAMMING \& SYSTEM ANALYSIS <br> 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 | MS-DOS (1) OR |  |
| :--- | :--- | :--- |
| CIS121AE | Windows Operating System: Level I (1) OR |  |
| CIS126AA | UNIX Operating System: Level I (1) OR |  |
| CIS126AL | Linux Operating System I (1) | 1 |
| + CIS150 | Programming Fundamentals (3) OR |  |
| + CIS150AB | Object-Oriented Programming Fundamentals (3) | 3 |
| + CIS159 | Visual Basic Programming I | 3 |
| CIS162 | C Programming I (3) OR |  |
| + CIS162AA | C: Level I (3) OR |  |
| + CIS162AB | C++: Level I (3) OR |  |
| + CIS162AC | Visual C++: Level I (3) OR | 3 |
| + CIS162AD | C\#: Level I (3) |  |

$\begin{array}{lll}\text { + CIS190 } & \text { Introduction to Local Area Networks (3) OR } & \\ \text { + CNT140 } & \text { Cisco Networking Basics (4) OR } & \\ \text { + MST140 } & \text { Microsoft Networking Essentials (3) } & 3-4\end{array}$

+ CIS225 Business Systems Analysis and Design (3) OR
+ CIS225AB Object-Oriented Analysis and Design (3) 3
+ GBS233 Business Communication 3
RESTRICTED ELECTIVES: Credits: 15
CIS126DA UNIX Operating System 3
+ CIS163AA Java Programming: Level I 3
+ CIS166 Web Scripting/Programming 3
+ CIS166AA Introduction to JavaScripting 3
+ CIS166AB Web Scripting with Perl/CGI 3
+ CIS166AC Web Scripting w/Active Server Pages (ASP).NET 3
+ CIS166AD Web Scripting with Java Server Pages (JSP) 3
+ CIS166AE Web Script w/PHP: Hypertext Preprocessor (PHP) 3
+ CIS169 Introduction to Visual Basic for Applications 3
+ CIS224 Project Mgt Microsoft Project for Windows 3
+ CIS250 Management Information Systems 3
+ CIS259 Visual Basic Programming II 3
+ CIS262 C Programming II 3
+ CIS262AA C: Level II 3
+ CIS262AB C++: Level II 3
+ CIS262AC Visual C++: Level II 3
+ CIS263AA Java Programming: Level II 3
+ CIS290AC Computer Information Systems Internship 3
GENERAL EDUCATION REQUIREMENTS: Credits: 22
CORE:
Credits: 12
First-Year Composition:
ENG101 First-Year Composition (3) OR
+ ENG107 First-Year Composition for ESL (3) AND
+ ENG102 First-Year Composition (3) OR
+ ENG108 First-Year Composition for ESL (3)
Oral Communication:
Any approved general education course in the
Oral Communication area.
Critical Reading: Met by CRE101 in Program Prerequisites area.

Mathematics:

+ MAT212 Brief Calculus
DISTRIBUTION: Credits: 10
Humanities and Fine Arts:
Any approved general education course in the
Humanities and Fine Arts area.
Natural Sciences:
Any approved general education course in the
Natural Sciences area.
Social and Behavioral Sciences:
ECN111 Macroeconomic Principles (3) OR
ECN112 Microeconomic Principles (3) OR
SBU200 Society and Business (3)


# Associate in Applied Science Degree \& Certificate Programs 

# RETAIL MANAGEMENT 

Certificate of Completion: 5286<br>RETAIL MANAGEMENT<br>33 credits


#### Abstract

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

REQUIRED COURSES: ..... Credits: 33
ACC111 Accounting Principles I3
BPC110 Computer Usage \& Applications (3) ORCISI05 Survey of Computer Information Systems (3)3
ENG101 First-Year Composition (3) ORENG107 First-Year Composition for ESL (3)3
GBS110 Human Relations in Business and Industry (3) OR+ MGT251 Human Relations in Business (3)
GBS131 Business Calculations (3) OR

+ MAT102 Mathematical Concepts \& Applications (3) ..... 3
+ GBS233 Business Communication3
COM110 Interpersonal Communication (3) OR
IND133 Speaking in Business (3) ..... 3
MGT101 Techniques of Supervision (3) OR
MGT229 Management and Leadership I (3) ..... 3
MGT179 Utilizing the Human Resources Department (3) OR MGT276 Personnel/Human Resources Management (3)3
+ MKT268 Merchandising ..... 3
MKT271 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: 39
ACC111 Accounting Principles I ..... 3

+ ACC230 Uses of Accounting Information I ..... 3
+ ACC240 Uses of Accounting Information II ..... 3
BPC110 Computer Usage and Applications (3) OR
CISI05 Survey of Computer Information Systems (3) ..... 3
COM110 Interpersonal Communication (3) OR IND133 Speaking in Business (3) ..... 3
GBS110 Human Relations in Business and Industry (3) ORMGT251 Human Relations in Business (3)3
GBS131 Business Calculations (3) OR
+ GBS161 Mathematics of Business (3) ..... 3
GBS205 Legal, Ethical, and Regulatory Issues in Business
GBS233 Business Communication ..... 3
MGT101 Techniques of Supervision (3) OR
MGT229 Management and Leadership I (3) ..... 3
MGT179 Utilizing the Human Resources Department (3) OR
MGT276 Personnel/Human Resources Management (3) ..... 3
MKT268 Merchandising ..... 3
MKT271 Principles of Marketing ..... 3
RESTRICTED ELECTIVES: None
GENERAL EDUCATION: ..... Credits: 25
CORE: Credits: 15
First-Year Composition+ ENG101 First-Year Composition (3) OR
+ ENG107 First-Year Composition for ESL ..... (3) AND
+ ENG102 First-Year Composition (3) OR+ ENG108 First-Year Composition for ESL (3) OR+ ENG111 Technical Writing (3)6
ENG102 or ENG108 recommended for students pursuing aBAS degree at an Arizona university.
Oral Communication
COM230 Small Group Communication3

Critical Reading
CRE101 Critical and Evaluative Reading I (3) OR Equivalent by assessment

Mathematics
MAT102 Mathematical Concepts/Applications (3) OR Satisfactory completion of a higher level mathematics course

DISTRIBUTION:
Credits: 10
Humanities and Fine Arts
Any approved general education course from the
Humanities and Fine Arts area.
Social and Behavioral Sciences
SBU200 Society and Business

## Natural Sciences

Any approved general education course from the
Natural Sciences area.

# STRENGTH, NUTRITION \& PERSONAL TRAINING 

Certificate of Completion: 5445<br>STRENGTH \& CONDITIONING PERSONAL TRAINER<br>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 COURSES: Credits: 31
BIO160 Introduction to Human Anatomy and Physiology 4
HES 100 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 |

PED125 Exercise Science 3
PED130 Strength Fitness-Physiological Principles and Training Techniques
PED145 Guidelines for Exercise Testing and Prescription

+ PED285 Exercise Program Design and Instruction 3

Associate of Applied Science: 3059

## STRENGTH, NUTRITION \& PERSONAL TRAINING <br> 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 PREREQUISITES: None
REQUIRED COURSES: Credits: 47-48
BPC110 Computer Usage and Applications 3
FON100 Introductory Nutrition 3

+ FON100AD Nutrition Sports and Physical Activity 1
+ FON137 Nutrition Supplements 2
+ FON230 Nutrition for Special Populations 3
+ FON247 Weight Management Theory 3
HES154 First Aid/Cardiopulmonary Resuscitation (3) OR
BLS Health Care Provider \& First Aid Certification (3) 3
HES271 Prevention and Treatment of Athletic Injuries 3
MGT253 Owning and Operating a Small Business 3
PED112 Professional Applications of Fitness Principles 3
PED125 Exercise Science 3
PED145 Guidelines for Exercise Testing and Prescription 3
+ PED139++ Practical Applications of Personal Training Skills and Techniques Internship (3) (any module) OR
+ PED285 Exercise Program Design and Instruction (3) 3
PSY101 Introduction to Psychology 3
+ PSY215 Introduction to Sport Psychology
AND

Choose one of the following series for 5-6 credits:

## Series 1:

Credits: 6
$\begin{array}{ll}\text { PED212SC } & \text { Instructional Competency Lab: } \\ & \text { Muscular Strength and Conditioning }\end{array}$
PED212CR Instructional Competency Laboratory: Cardiorespiratory Exercises and Activities
PED212FL Instructional Competency Laboratory: Flexibility and Mind-Body Exercises
OR
Series 2:
Credits: 5
PED130
Strength Fitness-Physiological Principles and Training Techniques

3
PED132 Cardiovascular Fitness: Physiological Principles and Training Techniques 2
OR
Series 3:
Credits: 5

+ PED275
PED132
Methods of Enhancing Physical Performance 3 Cardiovascular Fitness: Physiological Principles and Training Techniques

RESTRICTED ELECTIVES: None
GENERAL EDUCATION REQUIREMENTS:
Credits: 25-27
CORE:
Credits: 15-17
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)
Oral Communication
COM100 Introduction to Human Communication (3) OR 3
COM110 Interpersonal Communication (3)
Critical Reading
CRE101 Critical and Evaluative Reading I
Mathematics
MAT120 Intermediate Algebra (5) OR
MAT121 Intermediate Algebra (4) OR
MAT122 Intermediate Algebra (3) 3-5

DISTRIBUTION:
Credits: 10
Humanities and Fine Arts
Any approved general education course in the
Humanities and Fine Arts area
Social and Behavioral Sciences
CFS205 Human Development (3) OR
HES100 Healthful Living (3)
Natural Sciences
BIO160 Introduction to Human Anatomy and Physiology 4

## TEACHING HEALING MEDITATION \& STRESS MANAGEMENT

DESCRIPTION: This program provides instruction and experiential training in kinetic, auditory, and visual modalities of healing meditation; instruction and training in the application of these techniques to stress management; and training and practical experience in teaching and utilizing healing meditation for stress management in clinical and professional settings.

## Certificate of Completion: 5018 TEACHING HEALING MEDITATION \& STRESS MANAGEMENT <br> 21.5 credits

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 PREREQUISITES <br> 0-4

Completion of an AAS degree or higher in a recognized health science discipline from a regionally accredited institution of higher education recognized by Maricopa County Community College District, OR a combination degree in psychology, social work, counseling, health education, exercise science or related field AND 1 year experience in related health fields, OR all of the following HCC courses:

HCC $130 \quad$ 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

## REQUIRED COURSES

Credits: 21.5
HES 100 Healthful Living
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)
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 101 YJ 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)

## Associate in Applied Science Degree \& Certificate Programs

| + 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.

