

CONSENT AGENDA ACTION ITEM

Governing Board Agenda

Meeting Date: February 24, 2009

Item Number	Item Title	Responsible Agents
	Curriculum	Dr. Maria Harper-Marinick

Recommendation

The curriculum proposals attached have been processed through all procedures established by the Maricopa County Community Colleges.

It is recommended that the proposals be approved as submitted.

AGENDA HIGHLIGHTS: Please refer to the curriculum Summary on page 2 for a complete listing of all program and course proposals.

Justification

Funding	Approvals/Certifications
<p><u>Source:</u></p> <p><u>Account Identification:</u></p>	<p>Chancellor _____</p> <p>Academic & Student Affairs _____</p> <p>Business Services _____</p> <p>Human Resources _____ ITS _____</p> <p>Res Dev & Cmty Affairs _____</p> <p>College President _____</p>

GBA February 24, 2009 MCCC CD Governing Board Action Items
Curriculum Summary

COURSE PROPOSALS:

Course Modifications to Year/Term End (Deletion).....page 6

GCC ESL067, ESL077
PC CIS150AC, SLG206, SLG210, SLG242
RSC EEP294, EEP295

Course Modifications.....page 7

GCC ENG071
GWCC WRT250, WRT258
PC HCE114, MTC193
RSC TLT149

New Courses.....page 10

GCC ESL077, ESL087, ESL097, EXS142
GWCC NCE168
MCC FON100LL, FON135, MUP240, REL218, REL223
PC MTC291
SCC AJS116
SMCC CIS177, CIS277

PROGRAM PROPOSALS:

New Occupational Programs (NOP).....page 14

EMCC	AAS/3153	Radiation Protection Technology	14
	CCL/5565	Radiation Protection Technology	16

Note: *Indicates Addition of Occupational Program from OPM process

GBA February 24, 2009 MCCCCD Governing Board Action Items
Curriculum Summary

PROGRAM PROPOSALS: - Continued

Occupational Program Modifications (OPM).....page 17

GCC	CCL/5192 Shared by: GCC, SMC	Small Business Entrepreneurship	17
	CCL/5421	Personal Trainer	18
	CCL/5429 Shared by: GCC, PC, MCC	Home Furnishings and Materials	19
GWCC	AAS/3830	Water Technologies	21
	CCL/5461	Computed Tomography	24
	CCL/5626	Magnetic Resonance Imaging	25
MCC	AAS/3081	Digital Arts	26
	CCL/5633	Digital Arts: Graphic Design	29
	AAS/3108	Geospatial Technologies	30
	CCL/5135	Geographic Information Systems	33
PC	CCL/5279	Phlebotomy	35
	CCL/5794	Patient Care Technician	37
RSC	CCL/5638	eLearning Design Specialist	39
	*AAS/3121	eLearning Design Specialist	41
SCC	AAS/3360	Early Childhood Development	45
	AAS/3396	Administration of Justice Studies	48
	CCL/5861	Justice Studies	50

Note: *Indicates Addition of Occupational Program from OPM process

GBA February 24, 2009 MCCC Governing Board Action Items
Curriculum Summary

PROGRAM PROPOSALS: - Continued

Occupational Program Modifications (OPM) - Continued

SMCC	AAS/3095	IT: Cisco Networking Professional	51
	CCL/5526	IT: Cisco Networking Professional	53
	AAS/3096	IT: Network Server	55
	CCL/5529	IT: Network Server	57
	AAS/3097	IT: Network Security	59
	CCL/5530	IT: Network Security	61
	AAS/3098	IT: Computer Applications Specialist	63
	CCL/5201	IT: Computer Applications Specialist	65
	AAS/3099	IT: Programming and System Analysis	67
	AAS/5193	IT: Programming and System Analysis	69
	AAS/3100	IT: Web and Graphic Design	71
	CCL/5168	IT: Web and Graphic Design	73
	AAS/3167	Information Technology	75
	CCL/5163	Information Technology Support	78

Occupational Program Deletions (OPD).....page 80

RSC	AAS/3844	Programming and System Analysis	80
	Shared by: CGCC (Mor), EMCC, GCC, GWCC, MCC, PC, PVCC, RSC (Mor), SCC		
	CCL/5048	Programming and System Analysis	81
	Shared by: CGCC, EMCC, GCC, GWCC, MCC, PC, PVCC, RSC (Mor), SCC		
SCC	AAS/3044	Family Life Education	82
	Shared by: GCC, MCC, RSC, SCC		
	AAS/3853	Business	83
	CCL/5396	Parent Education	84
	Shared by: GCC, MCC, RSC, SCC		

New Academic Programs (NAP).....page 85

PC	AC/6231	Electronic Music	85
	Shared by: GC, PC, MC, SC		

Note: *Indicates Addition of Occupational Program from OPM process

CURRICULUM ACTIVITY: COURSES FOR February 24, 2009

Total Course Proposals Submitted (28 with 0 modules added, 0 X-refs added and, 0 X-refs deleted)												
Proposal Type/Outcomes	CGCC	EMCC	GWCC	GCC	MCC	PVCC	PC	RSC	SCC	SMCC	Dist	Totals
Course Modification (CM)			2	1			2	1				6
Course Deletions				2			4	2				8
CM: X-Ref Added (new course generated)												0
CM: Modules Added (new courses generated)												0
CM: Variation Credits/Periods Module Added (new courses generated)												0
New Course (excludes above CM additions)			1	4	5		1		1	2		14
Total Courses College Columns	0	0	3	7	5	0	7	3	1	2	0	28
Overall New Courses Generated for MCCC	0	0	1	4	5	0	1	0	1	2	0	14
Overall Course Modifications Generated for MCCC	0	0	2	3	0	0	6	3	0	0	0	11

*Exp = Experimental Courses # = AES or MIR (Aerospace Studies or Military Science)

CURRICULUM ACTIVITY: PROGRAMS FOR February 24, 2009

Total Program Proposals Submitted (38, with 1 Program Addition(s))												
Proposal Type/Outcomes	CGCC	EMCC	GWCC	GCC	MCC	PVCC	PC	RSC	SCC	SMCC	Dist	Totals
Occupational Program Deletions (OPD)								2	3			5
New Occupational Program (NOP) (college specific)		2										2
NOP-Shared (*primary college)												0
Occupational Program Modification (OPM)			3	3	4		2	1*	3	14		30
OPM-Program Additions (new programs generated)								1				1
OPM-Program Additions-shared (^primary college)												0
OPM-Change in Availability (shared, new programs generated, *primary college)												0
OPM-Change in Availability (programs no longer offered)												0
Academic Program Deletions (APD)												0
New Academic Program (NAP) (college specific)												0
NAP-Shared (*primary college)				1	1		1*		1			4
Academic Program Modification (APM)												0
APM-Program Additions-college specific (new programs generated)												0
APM-Change in Availability (new program generated)												0
MCCC New Programs Generated	0	2	0	1	1	0	1	1	1	0	0	7
MCCC Modified Programs Generated	0	0	3	3	4	0	2	3	6	14	0	35

Shared Programs include programs offered by two or more colleges and District Wide Programs are offered by all 10 colleges.

NOTE: Program attachments use strikeovers to signify deletion of program information. Text in bold print signifies additions to the program.

ATTACHMENT: CD
 COURSE DELETIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

<u>X-REF</u>	<u>TYPE</u>	<u>COLLEGE</u>	<u>SUBJECT</u>	<u>TITLE</u>	<u>EFF.END OF</u>
	O	PC	CIS150AC	Programming Fundamentals: Accounting	2009 Spring
	A	RSC	EEP294	Early Learning: Infant/Toddler Internship	2009 Summer I
	A	RSC	EEP295	Early Learning: Preschool Internship	2009 Summer I
	A	GCC	ESL067	Basic Writing Skills for English as a Second Language	2009 Summer II
	A	GCC	ESL077	Fundamentals of Writing English as a Second Language	2009 Summer II
	O	PC	SLG206	Interpreting I	2009 Spring
	O	PC	SLG210	Interpreting II	2009 Spring
	O	PC	SLG242	Educational Interpreting	2009 Spring

X-Ref=Displays current course cross-reference with proposed deletion. The cross-referencing of courses is eliminated per effective "end of" term noted above

ATTACHMENT: CM
COURSE MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

ACT CREDITS PERIODS

PRESENT:

ENG071	Language Skills	LEC	3.0	3.0
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Emphasis on basic speaking and writing skills. Stress on individual growth and personalized study programs based upon the needs of individual students.

Prerequisites: Appropriate English placement test score.

PROPOSED: (Change in: Description, Prerequisites, Title, Competencies, Outline.)

ENG071	Language Skills: Speaking and Writing Standard English	LEC	3.0	3.0
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Emphasis on basic Standard English speaking and writing skills with a focus on essential grammar in developing effective sentence-level speaking and written strategies.

Prerequisites: Appropriate English placement test score or permission of Department or Division.

Type: A College: GCC Effective: 2009 Fall

PRESENT:

HCE114	Refresher Course for Phlebotomists	L+L	0.5	0.5
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Review of phlebotomy theory and practices including equipment, procedures, and special considerations. Reinforces basic skills and competencies of phlebotomy techniques for trained phlebotomists currently working in the field.

Prerequisites: Must be currently employed as a phlebotomist or permission of the Program Director.

PROPOSED: (Change in: Periods From: 0.5 To: 0.75, Load From: 0.50 To: 0.67.)

HCE114	Refresher Course for Phlebotomists	L+L	0.5	0.75
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Review of phlebotomy theory and practices including equipment, procedures, and special considerations. Reinforces basic skills and competencies of phlebotomy techniques for trained phlebotomists currently working in the field.

Prerequisites: Must be currently employed as a phlebotomist or permission of the Program Director.

Type: O College: PC Effective: 2009 Summer I

ATTACHMENT: CM
COURSE MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

ACT CREDITS PERIODS

PRESENT:

MTC193	Computer-Based Sound Synthesis	LEC	3.0	3.0
		LAB	0.0	2.0

Principles of sound synthesis using computer-based methods. Synthesis methods include subtractive, additive, frequency modulation, sample and synthesis, and hybrid. Emphasis on synthesis techniques for use in electronic music.
 Prerequisites: MTC191 or permission of Instructor.

PROPOSED: (Change in: Activity Type From: LEC LAB To: L+L, Credits From: LEC 3.0 LAB 0.0 To: 3.0, Periods From: LEC 3.0 LAB 2.0 To: 5.0, Load From: LEC 3.0 LAB 1.4 To: 4.4.)

MTC193	Computer-Based Sound Synthesis	L+L	3.0	5.0
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Principles of sound synthesis using computer-based methods. Synthesis methods include subtractive, additive, frequency modulation, sample and synthesis, and hybrid. Emphasis on synthesis techniques for use in electronic music.
 Prerequisites: MTC191 or permission of Instructor.

Type: A College: PC Effective: 2009 Summer I

PRESENT:

TLT149	Digital Phone Network Installation	L+L	2.0	3.0
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Telephone network installation procedures. Emphasis on multi dwelling unit, multiple broadband applications, and residential telephone networks. Covers component connection and basic electronics principles.
 Prerequisites: None.

PROPOSED: (Change in: Description, Competencies, Outline.)

TLT149	Digital Phone Network Installation	L+L	2.0	3.0
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Telephone network installation procedures. Emphasis on multi dwelling unit, multiple broadband applications, and residential telephone networks. Covers component connection.
 Prerequisites: None.

Type: O College: RSC Effective: 2009 Spring

ATTACHMENT: CM
COURSE MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

ACT CREDITS PERIODS

PRESENT:

WRT250	Surface Water Hydrology	LEC	3.0	3.0
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Fundamentals of surface water resources. Components of the hydrologic cycle, including precipitation, evaporation, evapotranspiration, infiltration, and runoff related to surface water. Emphasis on data collection techniques, data processing and interpretation.

Prerequisites: None. Corequisites: (WRT100 and WRT110) and (MAT122 or equivalent) or permission of department.

PROPOSED: (Change in: Description, Prerequisites, Corequisites, Competencies, Outline.)

WRT250	Surface Water Hydrology	LEC	3.0	3.0
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Fundamentals of surface water, understanding of surface water features, and characteristics and parameters impacting surface water features. Conducting hydrologic modeling and on modeling itself.

Prerequisites: (WRT150, WRT117) and (MAT120 or MAT121 or MAT122) or permission of Department or Division.

Type: A	College: GWCC	Effective: 2009 Summer I
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PRESENT:

WRT258	Surface Water Field Techniques	LAB	1.0	3.0
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Field exercises to acquire surface water data and service data gathering equipment. Safety procedures stressed.

Prerequisites or Corequisites: WRT250 or permission of department.

PROPOSED: (Change in: Credits From: 1 To: 2, Course Type From: Lab To: L+L, Load From: 2.4 To: 2.7, Description, Prerequisites, Corequisites, Competencies, Outline.)

WRT258	Surface Water Field Techniques	L+L	2.0	3.0
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Field exercises to acquire surface water data and develop hydrologic models. Safety procedures stressed.

Prerequisites or Corequisites: WRT158, or WRT250, or permission of Department or Division.

Type: A	College: GWCC	Effective: 2009 Summer I
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**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
AJS116	Crime Prevention	Lec:	3.0	3.0

Examines the principles and skills associated with crime prevention. Analyzes the appropriate techniques and strategies police agencies use to operate crime prevention programs.

Prerequisites: None.

Type: O College: SCC Effective: 2009 Fall

CIS177	Operating Juniper Networks Routers in the Enterprise	L+L:	4.0	5.0
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Operating Juniper Networks Routers in the Enterprise, an introductory-level course, focuses on installation, configuration, operational analysis, and troubleshooting considerations of Juniper Networks routers in the enterprise. Course introduces Juniper Networks Enterprise Routing platforms including M-series and J-series models. Focuses on router configuration using both the J-Web graphical user interface (GUI) and the JUNOS software command-line interface (CLI). Real-world configuration and operational monitoring case studies provide general router configuration and RIP (Routing Information Protocol), static, OSPF (Open Shortest Path First) routing. Overview of common services, Virtual Router Redundancy Protocol (VRRP), the Multilink Point-to-Point Protocol (MLPPP) and Network Address Translation (NAT).

Prerequisites: None.

Type: O College: SMCC Effective: 2009 Spring

CIS277	Advanced Juniper Networks Routing in the Enterprise	L+L:	4.0	5.0
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Advanced Juniper Networks Routing in the Enterprise course provides enterprise network engineers with knowledge and skills to use Juniper Networks routers to meet their networks' requirements. Covers advanced routing and services configurations of Juniper Networks J-series and M-series platforms, focusing on advanced configurations commonly used in the enterprise environment.

Prerequisites: CIS177 or permission of Instructor.

Type: O College: SMCC Effective: 2009 Spring

**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
NCE168	End of Life Care Training	Lec:	1.0	1.0
<p>Nursing care at the end of life, pain management, symptom management, ethical issues, communication, cultural considerations, loss, grief and bereavement. Achievement of quality palliative care and preparation for and care at the time of death. Prerequisites: None.</p>				
Type: O	College: GWCC	Effective: 2009 Summer I		
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REL218	Religion and Culture	Lec:	3.0	3.0
<p>Examination of the relationship between religion and culture, with a particular emphasis on how culture influences religion and how religion influences culture historically and in modern settings. Prerequisites: None.</p>				
Type: A	College: MCC	Effective: 2009 Summer I		
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REL223	Spiritual But Not Religious	Lec:	3.0	3.0
<p>Explore the historical, social, and cultural context for the emergence of spiritual but not religious segment, and examine who identifies with this movement and why. Identify what variety of attitudes and beliefs this group holds, and explore the varieties of private and public spiritual practices and civic engagement this group participates in. Prerequisites: None.</p>				
Type: A	College: MCC	Effective: 2009 Summer I		
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ATTACHMENT: NOP
 NEW OCCUPATIONAL PROGRAMS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: NOP	Program Title: Radiation Protection Technology
Award Type: AAS	Initiating College: EMCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 64

Major Code: 3153	CIPS Code: 51.09.16
Initiator: Dwain Desbien	Instructional Council: Occupational Deans (53)

Description: **The Associate in Applied Science (AAS) in Radiation Protection Technology program prepares individuals, under the supervision of health physicists, occupational safety and health specialists, and public health officials, to monitor and control radiation exposure and implement preventive measures in health care, work environments, and natural environments. The courses include instruction in radiation physics, environmental radioactivity, radiological instrumentation, electronics of radiation detection equipment, radioactive waste management and control, safety and handling procedures of radioactive materials. Course work also includes decontamination procedures, radioactivity testing and analysis, and communications skills.**

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

Admission Criteria:**None**

Program Prerequisites: **3**

CRE101	Critical and Evaluative Reading I (3) OR equivalent as indicated by assessment	3
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Required Courses: Credits: 36

+ RPT103	Radiation Fundamentals	3
+ RPT113	Radiation Monitoring	3
+ RPT223	Radiation Dosimetry	3
+ RPT233	Radioactive Materials Handling	3
+ RPT243	Radiological Safety and Response	3
+ RPT253	Radiation Protection	3
+ RPT290	Radiation Protection Internship	5
CPD150	Strategies for College Success	3
+ ELC105	Electricity for Industry	3
+ ELC105LL	Electricity for Industry Lab	1
CIS105	Survey of Computer Information Systems	3
ELT100	Survey of Electronics	3

Restricted Electives: None

Free Electives: None

General Education: Credits: 28

CORE: Credits: 14

First-Year Composition		
+ ENG101	First-Year Composition (3) and	
+ ENG111	Technical and Professional Writing (3)	6

Oral Communication		
Any approved General Education course in the communication area		
		3

ATTACHMENT: NOP
NEW OCCUPATIONAL PROGRAMS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: NOP	Program Title: Radiation Protection Technology
Award Type: AAS	Initiating College: EMCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 64

Major Code: 3153	CIPS Code: 51.09.16
Initiator: Dwain Desbien	Instructional Council: Occupational Deans (53)

(AAS in Radiation Protection Technology continued)

Critical Reading
 Met by CRE101 OR
 Equivalent as indicated by assessment in Program Prerequisites area. 0

Mathematics
 + MAT220 Calculus with Analytic Geometry I (5) 5

DISTRIBUTION: Credits: 14

Humanities and Fine Arts
 Any approved General Education course in the Humanities and Fine Arts area. 3

Social and Behavioral Sciences
 Any approved General Education course in the Social and Behavioral Sciences. 3

Natural Sciences
 + CHM130 Fundamental Chemistry (3) and
 + CHM130LL Fundamental Chemistry Laboratory (1) and
 + PHY121 University Physics I: Mechanics (4) 8

ATTACHMENT: NOP
NEW OCCUPATIONAL PROGRAMS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:NOP
Award Type:CCL
Effective First Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Radiation Protection Technology
Initiating College:EMCC
Program Availability:College Specific
Total Credits:23

Major Code:5565
Initiator:Dwain Desbien

CIPS Code: 51.09.16
Instructional Council:Occupational Deans (53)

Description: The Certificate of Completion (CCL) in Radiation Protection Technology program prepares individuals, under the supervision of health physicists, occupational safety and health specialists, and public health officials, to monitor and control radiation exposure and implement preventive measures in health care, work environments, and natural environments. The courses include instruction in radiation physics, environmental radioactivity, radiological instrumentation, electronics of radiation detection equipment, radioactive waste management and control, safety and handling procedures of radioactive materials. Course work also includes decontamination procedures, radioactivity testing and analysis, and communications skills.

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

Admission Criteria:None

Program Prerequisites:3

MAT092	Introductory Algebra, (3) OR Satisfactory score on placement exam, OR permission of Instructor	3
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Required Courses: Credits: 23

+ RPT103	Radiation Fundamentals	3
+ RPT113	Radiation Monitoring	3
+ RPT223	Radiation Dosimetry	3
+ RPT233	Radioactive Materials Handling	3
+ RPT243	Radiological Safety and Response	3
+ RPT253	Radiation Protection	3
+ RPT290	Radiation Protection Internship	5

Restricted Electives:None

Free Electives:None

General Education:None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM	Program Title: Small Business Entrepreneurship
Award Type: CCL	Initiating College: GCC
Effective First Year Term: 2009 Fall	Program Availability: Shared by: GCC, SMC
Overall G.P.A.: 2.00	Total Credits: 11

Major Code: 5192	CIPS Code: 52.07.01
Initiator: Carnella Hardin	Instructional Council Receiving Proposal:
Business/Management	

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: Students enrolled in the Small Business Entrepreneurship **Certificate of Completion (CCL)** program will acquire the skills, tools and knowledge necessary for successful start-up and operations of a profit-making business. Emphasis is placed on evaluating potential business opportunities, developing a business plan, and practical application of small business operating principles. Students develop a foundation of business start-up strategies and practices that will enable them to prosper in the ever-changing small business environment.

Program Notes:
+ indicates course has prerequisite and/or corequisites

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: 9

EPS295	The Small Business Plan and Business Start- UP Up	2
SBS200	Small Business Operations	2
SBS203	Financing and Cash Management for a Small Business	1
SBS204	Small Business Marketing and Advertising	2
SBS213	Hiring and Managing Employees	1
SBS298AA	Special Projects	1
SBS202	Small Business Bookkeeping and Tax Preparation	1

Restricted Electives: Credits: 2

SBS202	Small Business Bookkeeping and Tax Preparation	1
SBS211	Small Business Computer Applications	1
SBS214	Small Business Customer Relations	1
SBS215	Managing Stress in Small Business	1
+ SBS216	Planning for a Small Business	2
SBS217	Starting/Managing a Home Business	1
SBS218	Establishing an Import/Export Business	1
SBS220	Internet Marketing for Small Business	2
+ SBS298AA	Special Projects	1
MGT253	Owning and Operating a Small Business	3

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
 Award Type:CCL
 Effective First Year Term:2009 Fall
 Overall G.P.A.: 2.0

Program Title:Personal Trainer
 Initiating College:GCC
 Program Availability:College Specific
 Total Credits: 13

Major Code:5421
 Initiator: Olivia Templeton
 Health & PE, Recreation & Wellness (32)

CIPS Code: 31.05.05
 Instructional Council Receiving Proposal: Exercise Science,

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 16

Description: The Personal Trainer Certificate of Completion (CCL) program is designed to develop skills in Personal Training and related technical skills necessary to provide and implement individual fitness programs and group exercise classes which are safe, motivational, and effective.

Program Notes:

+ indicates course has prerequisite and/or corequisites

Students must earn a grade of "C" or better for all courses required within the program.

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: ~~43~~ **16**

PEDEXS112	Professional Applications of Fitness Principles	3
PEDEXS125	Exercise Science Introduction to Exercise Physiology	3
PEDEXS130	Strength Fitness-Physiological Principles and Training Techniques	3
PED140	Principles of Safe Exercise	1
+	EXS139AA Practical Applications of Personal Training Skills and Techniques Internship	1
	EXS142 Introduction to the Fitness Profession	3
	FON105 Nutrition Principles for Personal Trainers Fitness Professionals	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
 Award Type:CCL
 Effective First Year Term:2009 Summer I
 Overall G.P.A.:2.0

Program Title:Home Furnishings and Materials
 Initiating College: GCC
 Program Availability:Shared by: (GCC), PC, MCC
 Total Credits:30

Major Code:5429
 Initiator: Susan Campbell

CIPS Code:50.04.08
 Instructional Council Receiving Proposal:Interior Design (37)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Program Title To: Interior Merchandising

Description: The ~~Home Furnishings and Materials~~ **Interior Merchandising** Certificate of Completion (CCL) is intended designed to provide the student with **the knowledge and creative skills required for careers in the a** ~~working knowledge of the residential home furnishings, colorizing, visual merchandising, and home-staging industry, industries.~~ **Students will study** including basic design **principles and** elements and principles, color theory, **drafting, furniture layout,** historical **and modern** architecture and furniture, fabrics, and other ~~materials used through the home environment~~ **factors utilized in interior merchandising.** Elective coursework allows the student to take specific courses that will help prepare them for the particular segment of the industry they are most interested in pursuing.

Program Notes:

+ indicates course has prerequisites and/or corequisites.

Students must earn a grade of "C" or better for all courses required within the program.

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: ~~48~~ **21**

INT100	Interior Design Drafting	3
INT105	Introduction to Interior Design	3
INT115	Historical Architecture and Furniture	3
INT120	Modern Architecture and Furniture	3
INT150	Color and Design	3
INT160	Fabrics for Interiors	3
+ INT170	Interior Materials	3

Restricted Electives: Credits: ~~42~~ **9**

AGB140	Commercial Floral Design	3
AGS187	Indoor Foliage Plants	3
ARH100	Introduction to Art	3
ART100	Introduction to Computer Graphic Art	1
ART131	Photography I	3
ASB251	Introduction to Museums	3
DFT126	Building Trades Blueprint Reading	3
GTC130	Furniture Construction I	3
+ GTC131	Furniture Construction II	3
GTC144	Introduction to Cabinetmaking	3
+ GTC145	Advanced Cabinetmaking	3
JRN234	Feature Writing	3
MGT251	Human Relations in Business	3
MKT/TEC151	Display and Visual Merchandising	3
MKT268	Merchandising	3
TEC126	Sewing for the Home	3
TEC128	Home Upholstery	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Summer I
Overall G.P.A.:2.0

Program Title:Home Furnishings and Materials
Initiating College: GCC
Program Availability:Shared by: (GCC), PC, MCC
Total Credits:30

Major Code:5429
Initiator: Susan Campbell

CIPS Code:50.04.08
Instructional Council Receiving Proposal:Interior Design (37)

(CCL in Home Furnishings and Materials continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Program Title To: Interior Merchandising

TQM101	Quality Customer Service	3
ART111	Drawing I	3
ADA/ART112	Two-Dimensional Design	3
MKT263	Advertising Principles	3
MKT271	Principles of Marketing	3
INT/ART/MKT+++	Any INT, ART, or MKT prefixed course approved by department advisor	3

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type: AAS
Effective First Year Term: 2009 Summer I
Overall G.P.A.: 2.00

Program Title: Water Technologies
Initiating College: GW
Program Availability: College Specific
Total Credits: 61-63

Major Code: 3830
Initiator: Lisa Young

CIPS Code: 15.05.06
Instructional Council Receiving Proposal: Applied Technology (57)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Associate in Applied Science (AAS) in Water Technologies degree includes theoretical and practical hands-on training in water and industrial wastewater treatment. The emphasis is on federal, state, county, and state regulations affecting water/wastewater treatment. The students would be involved in the operation, calibration, and maintenance of water and wastewater treatment equipment.

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.

Admission Criteria:

High School diploma OR equivalent.

Program Prerequisites: Credits: 3

+ MAT092	Introductory Algebra (3) OR Equivalent OR Satisfactory score on District placement exam	3
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Required Courses: Credits: 24

	FAC/GTC/MIT/OSH106 Industrial Safety	2
	WRT104AA Survey of Water Technologies	1
+	WRT210 Membrane Technologies	3
+	WRT218 Troubleshooting Membrane Technologies	1
+	WRT230 Ion Exchange Technologies	3
+	WRT238 Troubleshooting Ion Exchange Technologies	1
+	WRT240 Water Quality	3
	WWM115 Water Technology Calculations	3
+	WWM204 Water/Wastewater Maintenance/Mechanical Systems	3
	WWM205 Power and Instrumentation	3
	WWM206 Analytical Laboratory	1

Restricted Electives: Credits: 12

BPC/CIS+++++	Any BPC/CIS prefixed course(s)	3
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Students should select nine (9) credits from the following courses in consultation with a program advisor:

+	WRT100 Introduction to Hydrology	3
+	WRT101 Introduction to Hydrology Field Experiences	4
+	WRT117 Geographic Information Systems (GIS)	3
+	WRT270AA Water Resources Internship	1
+	WRT270AB Water Resources Internship	2
+	WRT270AC Water Resources Internship	3
	WWM110 Principles of Water Treatment Plant Operations	3
	WWM114 Mineral Control	3
+	WWM116 Water Treatment Plant Administration	3
	WWM120 Operation of Wastewater Treatment Plants	3
	WWM124 Sludge and Solids Handling	3
+	WWM126 Wastewater Plant Administration	3
	WWM130 Wastewater Collection Systems Operation and Maintenance	3
	WWM134 Water Distribution Systems Operation and Maintenance	3
	WWM140 Water Quality for Treatment Industry	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type: AAS
Effective First Year Term: 2009 Summer I
Overall G.P.A.: 2.00

Program Title: Water Technologies
Initiating College: GW
Program Availability: College Specific
Total Credits: 61-63

Major Code: 3830
Initiator: Lisa Young

CIPS Code: 15.05.06
Instructional Council Receiving Proposal: Applied Technology (57)

(AAS in Water Technologies continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

WWM190AA	Water Technologies Seminar Level 1	1
WWM190AB	Water Technologies Seminar Level 2	1
WWM190AC	Water Technologies Seminar Level 3	1
WWM190AD	Water Technologies Seminar Level 4	1
WWM280AA	Arizona Water Certification Review: Treatment Grades 1 and 2	0.5
WWM280AB	Arizona Water Certification Review: Treatment Grades 3 and 4	0.5
WWM280AC	Arizona Water Certification Review: Distribution Grades 1 and 2	0.5
WWM280AD	Arizona Water Certification Review: Distribution Grades 3 and 4	0.5
WWM281AA	Arizona Wastewater Certification Review: Wastewater Treatment Grades 1 and 2	0.5
WWM281AB	Arizona Wastewater Certification Review: Wastewater Treatment Grades 3 and 4	0.5
WWM281AC	Arizona Wastewater Certification Review: Collections Grades 1 and 2	0.5
WWM281AD	Arizona Wastewater Certification Review: Collections Grades 3 and 4	0.5

General Education: Credits: 25-27

CORE: Credits: 15-17

First-Year Composition

+ ENG101	First-Year Composition (3) AND	
+ ENG102	First-Year Composition (3) OR	
+ ENG111	Technical Writing (3)	6

Oral Communication

COM100	Introduction to Human Communication (3) OR	
COM110	Interpersonal Communication (3) OR	
+ COM230	Small Group Communication (3)	3

Critical Reading

+ CRE111	Critical Reading for Business and Industry (3) OR Equivalent by Assessment	3
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Mathematics

+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR Equivalent by Assessment	3-5

DISTRIBUTION: Credits: 10

Humanities and Fine Arts

Any approved general education course from the Humanities and Fine Arts area	3
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Social and Behavioral Sciences

Any approved general education course from the Social and Behavioral Sciences area	3
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ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type: **AAS**
Effective First Year Term: **2009 Summer I**
Overall G.P.A.: **2.00**

Program Title: Water Technologies
Initiating College: **GW**
Program Availability: **College Specific**
Total Credits: **61-63**

Major Code: **3830**
Initiator: **Lisa Young**

CIPS Code: **15.05.06**
Instructional Council Receiving Proposal: **Applied Technology (57)**

(AAS in Water Technologies continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Natural Sciences

+ CHM130 Fundamental Chemistry (3) AND
+ CHM130LL Fundamental Chemistry Laboratory (1)

4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type: CCL
Effective First Year Term: 2009 Summer I
Overall G.P.A.: 2.00

Program Title: Computed Tomography
Initiating College: GW
Program Availability: College Specific
Total Credits: 13

Major Code: 5461
Initiator: Sharon Luczu

CIPS Code: 51.09.11
Instructional Council Receiving Proposal: Allied Health (51)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 12

Description: The Certificate of Completion (CCL) in Computed Tomography offers graduate Radiologic, and graduate Nuclear Medicine Technologists the opportunity to complete both didactic coursework and clinical skills experience necessary to prepare to become eligible to sit for the professional registration test in this field. The program focuses on specific skills and knowledge necessary to become proficient in this field.

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.

Admission Criteria:

Graduate Radiographer or graduate Nuclear Medicine Technologist.

Program Prerequisites: Credits: 3

+ DMI/ICE220	Sectional Anatomy	3
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Required Courses: Credits: ~~13~~ 12

+ ICE248	Computed Tomography (CT) Sectional Anatomy	2
+ ICE254	Advanced Imaging Practicum	1
+ ICE263	Physics and Instrumentation of Computed Tomography	3
+ ICE265	Computed Tomography Procedure Protocols	3
+ ICE273	Computed Tomography Pathology and Contrast	3
+ ICE291	Computed Tomography Registry and Board Exam Preparation	1

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
 Award Type: **CCL**
 Effective First Year Term: **2009 Summer I**
 Overall G.P.A.: **2.00**

Program Title: Magnetic Resonance Imaging
 Initiating College: **GW**
 Program Availability: **College Specific**
 Total Credits: **14**

Major Code: **5626**
 Initiator: **Sharon Luczu**

CIPS Code: **51.09.99**
 Instructional Council Receiving Proposal: **Allied Health (51)**

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 13

Description: The Certificate of Completion (CCL) in Magnetic Resonance Imaging (MRI) program prepares students to become eligible to sit for the national examination in Magnetic Resonance Imaging. This program, offered by the Medical Radiography and Nuclear Medicine programs will be a part-time, evening program directed towards individuals, who by their previous academic and clinical preparation could become eligible to sit for this exam.

Program Notes:

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

Admission Criteria:

Graduate registered medical radiographer, or a graduate registered nuclear medicine technologist, or other board eligible registered imaging professionals.

Program Prerequisites: **3**

+ DMI/ICE220	Sectional Anatomy	3
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Required Courses: Credits: ~~14~~ **13**

Students entering into the program may take the program prerequisite concurrently with required courses with permission of department.

+ ICE229	Magnetic Resonance Imagery for Cross-Sectional Anatomy	2
+ ICE233	Fundamentals of Magnetic Resonance Imaging (MRI)	1
+ ICE254	Advanced Imaging Practicum	1
+ ICE264	MRI Physics, Instrumentation and Safety	3
+ ICE269	Magnetic Resonance Procedure Protocols	3
+ ICE272	Magnetic Resonance Pathology and Contrast	3
+ ICE292	MRI Board Exam Review Preparation	1

Restricted Electives: None

Free Electives: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:**AAS**
Effective First Year Term:**2009 Fall**
Overall G.P.A.:**2.0**

Program Title:Digital Arts
Initiating College:**MCC**
Program Availability:**College Specific**
Total Credits:**62-65**

Major Code:**3081**
Initiator:**Sarah Capawana**

CIPS Code:**50.04.01**
Instructional Council Receiving Proposal:**Art (17)**

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Associate in Applied Science (AAS) in Digital Arts is designed for the student who wishes to develop marketable multimedia skills. The program allows the student to develop his/her skills in the areas of Web Design, Digital Photography, Digital Illustration, and Graphic Design. It allows for the development of an individual's personal interest, prepares students for employment, and upgrades skills of those already employed in this field. Employment opportunities are included in multimedia such as digital photographer, web designer, multimedia artist, graphic designer, and digital illustrator.

Program Notes:

+ indicates course has prerequisite and/or corequisites

Students must earn a grade of "C" or better for all courses required within the program.

Admission Criteria:None

Program Prerequisites:None

Required Courses: Credits: 37-40

ART100	Introduction to Computer Graphic Art	1
ART111	Drawing I	3
ADA/ART112	Two-Dimensional Design	3
ART113	Color	3
ART142	Introduction to Digital Photography	3
+ ADA/ART177	Computer-Photographic Imaging	3
+ ART255	Art Marketing (3) OR	
ART255AA	Self Promotion (1) AND	
+ ART255AB	The Portfolio (1) AND	
+ ART255AC	Marketing Fine Art (1)	3
+ ART202	Digital Arts Survey	3

Select one of the following four (4) tracks: Credits 15-18

Track I: Web Design Credits: 18

BPC/CIS133DA	Internet/Web Development Level I (3) OR	
+ ADA/ART169	Two-Dimensional Computer Design (3)	3
+ ADA/ART183	Computer Aided Graphic Arts I	3
+ ART/MMT190	Art of Web Site Design	3
+ ART192	Advanced Web Presentation Design	3
+ MMTA/PT216	Multimedia Project Management (3) OR	
+ ART203	Aesthetics of Web Design (3)	3
+ ART200	Animation and Interactivity	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM	Program Title: Digital Arts
Award Type: AAS	Initiating College: MCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 62-65

Major Code: 3081	CIPS Code: 50.04.01
Initiator: Sarah Capawana	Instructional Council Receiving Proposal: Art (17)

(AAS in Digital Arts continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Track II: Digital Illustration Credits: 15

ART116	Life Drawing I	3
+ ART122	Drawing and Composition II	3
+ ADA/ART169	Two-Dimensional Computer Design	3
+ ART270	Intermediate Computer Photographic Imaging	3
+ ADA/ART289	Computer Illustration	3

Track III: Digital Photography Credits: 15

ART131	Photography I	3
+ ART132	Photography II	3
+ ART143	Intermediate Digital Photography	3
+ ART270	Intermediate Computer Photographic Imaging	3
+ ART274	Advanced Computer Photographic Imaging	3

Track IV: Graphic Design Credits: 15

+ ART143	Intermediate Digital Photography (3) OR	
+ ADA/ART289	Computer Illustration (3)	3
+ ART/MMT190	Art of Web Site Design	3
+ ADA/ART169	Two-Dimensional Computer Design	3
+ ART/ADA183	Computer Aided Graphic Arts I	3
+ ADA/ART283	Computer Aided Graphic Arts II	3
+ ART291	Digital Prepress	3

Restricted Electives: None

Free Electives: None

General Education: Credits: 25

CORE Credits: 15

First-Year Composition		
+ Any approved General Education course in the First-Year Composition area		6
Oral Communication		
Any approved General Education course in the Oral Communication area		3
Critical Reading		
+ Any approved General Education course in the Critical Reading area		3
Mathematics		
+ Any approved General Education course in the Mathematics area		3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:**OPM**
Award Type:**AAS**
Effective First Year Term:**2009 Fall**
Overall G.P.A.:**2.0**

Program Title:**Digital Arts**
Initiating College:**MCC**
Program Availability:**College Specific**
Total Credits:**62-65**

Major Code:**3081**
Initiator:**Sarah Capawana**

CIPS Code:**50.04.01**
Instructional Council Receiving Proposal:**Art (17)**

(AAS in Digital Arts continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

DISTRIBUTION Credits: 10

Humanities and Fine Arts

Any approved General Education course from the Humanities and Fine Arts area 3

Social and Behavioral Sciences

Any approved General Education course from the Social and Behavioral Sciences area. 3

Natural Sciences

Any approved General Education course from the Natural Sciences area 4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Digital Arts: Graphic Design
Initiating College:MCC
Program Availability:College Specific
Total Credits:22

Major Code:5633
Initiator:Sarah Capawana

CIPS Code:50.04.01
Instructional Council Receiving Proposal:Art (17)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Certificate of Completion (CCL) in Digital Arts: Graphic Design prepares student to work in a specialized field of graphic design as production artists, graphic designers, art directors, pre-press specialists and service bureau personnel. The program emphasizes design and production principles and develops the student's knowledge and skills required to solve graphic design and layout problems encountered in various print media. The program is designed for both those seeking to enter a career in graphic art and those already working in the field who wish to advance and update their knowledge and skills.

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.

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: 22

ART100	Introduction to Computer Graphic Art	1
ADA/ART112	Two-Dimensional Design	3
ART142	Introduction to Digital Photography	3
+ ADA/ART169	Two-Dimensional Computer Design	3
+ ADA/ART177	Computer-Photographic Imaging	3
+ ADA/ART183	Computer Aided Graphic Arts I	3
+ ART/MMT190	Art of Web Site Design	3
+ ADA/ART283	Computer Aided Graphic Arts II	3
+ ART291	Digital Prepress	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.0

Program Title:Geospatial Technologies
Initiating College:MCC
Program Availability:College Specific
Total Credits: 60

Major Code:3108
Initiator:Karen Blevins

CIPS Code:45.07.01
Instructional Council Receiving Proposal:Geography (30)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Associate in Applied Science (AAS) in Geospatial Technologies prepares students for entry level positions within the field of Geographic Information Systems. The Geospatial Technologies program will also provide students with the educational foundation necessary for a four-year degree. A Certificate of Completion (CCL) is also available.

Program Notes:

Students must earn a grade of "C" or better for all courses within the program.
 Program is designed for students with varying skills consult with program director.
 + indicates course has prerequisites and/or corequisites.
 ++ indicates any module.

Admission Criteria:None

Program Prerequisites: Credits: 3-6

The credit hour range is subject to change depending on the student's educational experiences and track selected.

Track I User/Analyst: None

Track II Developer:

MAT120 Intermediate Algebra (5) OR
 MAT121 Intermediate Algebra (4) OR
 MAT122 Intermediate Algebra (3) OR
 equivalent or Satisfactory score on District placement exam.

Track III Transfer Emphasis:

MAT150 College Algebra/Functions (5) OR
 MAT151 College Algebra/Functions (4) OR
 MAT152 College Algebra/Functions (3) AND
 MAT182 Plane Trigonometry (3) OR
 MAT187 Precalculus (5) OR
 equivalent or Satisfactory score on District placement exam

Required Courses: **Credits: 32-39 29-34**

GCU102	Introduction to Human Geography	3
GPH111	Introduction to Physical Geography	4
+ GPH219	Introduction to GIS Using ArcGIS	3
+ GPH220	Intermediate GIS Using ArcGIS	3
GPH230	Spatial Database I	3
GPH270	Introduction to Cartography and Geospatial Technologies	3
+ GPH273	Advanced GIS Using ArcGIS (3) OR	
+ GPH282AA	Volunteerism for Physical Geography: A Service Learning Experience (1) OR	
+ GPH298++	Special Projects (any suffixed course) (1-3)	1-3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.0

Program Title:Geospatial Technologies
Initiating College:MCC
Program Availability:College Specific
Total Credits: 60

Major Code:3108
Initiator:Karen Blevins

CIPS Code:45.07.01
Instructional Council Receiving Proposal:Geography (30)

(AAS in Geospatial Technologies continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Students must select one of three (3) tracks.

Track I: User-Analyst Credits: 12

CIS105	Survey of Computer Information Systems	3
BPC/CIS117DM	Microsoft Access: Database Management	3
+ CIS159	Visual Basic Programming I (3) OR	
DFT110	Technical Drafting I (3)	3
+ GPH231	Spatial Database II (3) OR	
+ GPH235	Internet Mapping Using ArcIMS (3) OR	
GPH275	Remote Sensing, GPS, and GIS (3)	3

Track II: Developer Credits: 9

+ CSC110	Introduction to Computer Science for Majors	3
CSC181	Applied Problem Solving with Visual BASIC (3) OR	
+ CSC281	Advanced Programming with Visual Basic (3)	3
+ GPH231	Spatial Database II (3) OR	
+ GPH235	Internet Mapping Using ArcIMS (3) OR	
GPH275	Remote Sensing, GPS, and GIS (3)	3

Track III: Transfer Emphasis Credits: 14

+ CSC110	Introduction to Computer Science for Majors	3
CSC181	Applied Problem Solving with Visual BASIC	3
+ CSC200	Principles of Computer Science (Java)	3
+ MAT220	Calculus with Analytic Geometry I	5

Restricted Electives: Credits: ~~3~~ 6

GPH+++++	Any GPH Physical Geography course(s) not listed under Required Course area	6
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Free Electives: None

General Education: 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)	6

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.0

Program Title:Geospatial Technologies
Initiating College:MCC
Program Availability:College Specific
Total Credits: 60

Major Code:3108
Initiator:Karen Blevins

CIPS Code:45.07.01
Instructional Council Receiving Proposal:Geography (30)

(AAS in Geospatial Technologies continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Oral Communication	
Any approved general education course in the Oral Communication area	3
Critical Reading	
Any approved general education course in the Critical Reading area	3
Mathematics	
+ Any approved general education course in the Mathematics area	3-5
DISTRIBUTION: Credits: 10	
Humanities and Fine Arts	
Any approved general education course from the Humanities and Fine Arts area	3
Social and Behavioral Sciences	
Any approved general education course from the Social and Behavioral Sciences area	3
Natural Sciences	
Any approved general education course from the Natural Sciences area	4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.0

Program Title:Geographic Information Systems
Initiating College:MCC
Program Availability:College Specific
Total Credits: 32-39

Major Code:5135
Initiator:Karen Blevins

CIPS Code:45.07.01
Instructional Council Receiving Proposal:Geography (30)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 22-30

Description: The Certificate of Completion (CCL) in Geographic Information System (GIS) provides a core curriculum based on a solid foundation in GIS concepts, as opposed to training in GIS software only. This program equips students with fundamental GIS concepts and skills that can be applied in a variety of public and private work environments where spatial data analysis is required. An Associate in Applied Science (AAS) is also available.

Program Notes:

Students must earn a grade of "C" or better for all courses required within the program.
 Program is designed for students with varying skills consult with program director.
 + indicates course has prerequisites and/or corequisites.
 ++ indicates any module.

Admission Criteria: None

Program Prerequisites: Credits: 3-6

The credit hour range is subject to change depending on the student's educational experiences and track selected.

Track I User/Analyst: None

Track II Developer:

MAT120 Intermediate Algebra (5) OR
 MAT121 Intermediate Algebra (4) OR
 MAT122 Intermediate Algebra (3) OR
 equivalent or Satisfactory score on District placement exam.

Track III Transfer Emphasis:

MAT150 College Algebra/Functions (5) OR
 MAT151 College Algebra/Functions (4) OR
 MAT152 College Algebra/Functions (3) AND
 MAT182 Plane Trigonometry (3) OR
 MAT187 Precalculus (5) OR
 equivalent or Satisfactory score on District placement exam

Required Courses: Credits: ~~32-39~~ 22-30

GCU102	Introduction to Human Geography	3
+	GPH219 Introduction to GIS Using ArcGIS	3
+	GPH220 Intermediate GIS Using ArcGIS	3
	GPH230 Spatial Database I	3
	GPH270 Introduction to Cartography and Geospatial Technologies	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.0

Program Title:Geographic Information Systems
Initiating College:MCC
Program Availability:College Specific
Total Credits: 32-39

Major Code:5135
Initiator:Karen Blevins

CIPS Code:45.07.01
Instructional Council Receiving Proposal:Geography (30)

(CCL in Geographic Information Systems continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 22-30

GPH111	Introduction to Physical Geography (4) OR	
+ GPH273	Advanced GIS Using ArcGIS (3) OR	
+ GPH282AA	Volunteerism for Physical Geography: A Service Learning Experience (1) OR	
+ GPH298++	Special Project (any suffixed course) (1-3)	1-34

AND

Students must select one of three (3) tracks.

Track I: User/Analyst Credits: 12

CIS105	Survey of Computer Information Systems	3
BPC/CIS117DM	Microsoft Access: Database Management	3
+ CIS159	Visual Basic Programming I (3) OR	
DFT110	Technical Drafting I (3)	3
+ GPH231	Spatial Database II (3) OR	
+ GPH235	Internet Mapping Using ArcIMS (3) OR	
GPH275	Remote Sensing, GPS, and GIS (3)	3

Track II: Developer Credits: 9

+ CSC110	Introduction to Computer Science for Majors	3
CSC181	Applied Problem Solving with Visual Basic (3) OR	
+ CSC281	Advanced Programming in Visual Basic (3)	3
+ GPH231	Spatial Database II (3) OR	
+ GPH235	Internet Mapping Using ArcIMS (3) OR	
GPH275	Remote Sensing, GPS, and GIS (3)	3

Track III: Transfer Emphasis Credits: 14

+ CSC110	Introduction to Computer Science for Majors	3
CSC181	Applied Problem Solving with Visual Basic	3
+ CSC200	Principles of Computer Science (Java)	3
+ MAT220	Calculus with Analytic Geometry I	5

Restricted Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: **2009 Summer I**
Overall G.P.A.: 2.0

Program Title: Phlebotomy
Initiating College: PC
Program Availability: College Specific
Total Credits: 3.5-7.5

Major Code: 5279
Initiator: Rochelle Helminski

CIPS Code: 51.1009
Instructional Council Receiving Proposal: Allied Health (51)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: This Certificate of Completion (CCL) in **Phlebotomy** is designed to prepare a person to obtain blood specimens by skin puncture and venipuncture. The phlebotomist may find employment in hospitals, patient service centers, life insurance companies, doctors' offices, outreach services, and donor centers. This program can be customized to accommodate the phlebotomy needs of any health care professional currently employed in the health care setting. Students in the Phlebotomy program will be in contact with potentially infectious blood, tissues, and body fluids.

Upon satisfactory completion of the program, the students are eligible to take a national certification examination.

Program Notes:

+ indicates course has prerequisites and/or corequisites.

Students must earn a grade of "C" or better in all courses within the program.

~~Orientation to the program and advisement are mandatory.~~ **A special application must be completed in order to be officially accepted into the program.** For further information, contact the **Program Director** or a Program Advisor for Health Professions and Nursing in the Advisement Center.

Admission Criteria:

High School diploma or GED.

Ability to fully participate in classroom, laboratory, or clinical setting program activities.

Submit current CPR card for Health Care Provider and maintain current status throughout the practicum(s).

Proof of current immunization: Measles, Mumps, and Rubella (MMR), Tuberculosis skin test (TB), Varicella, Tetanus/Diphtheria (Td), and Hepatitis B (HEB) vaccine.

Complete and submit the required proof of immunity and health declaration form signed by a licensed health care provider.

Submit to a drug screening and demonstrate negative results.

Submit current fingerprinting clearance card.

Formal application and admission to the program are required. Applications can be obtained from the Program Director, a Health Professions Advisor, or from the Phoenix College web site.

A special application must be completed to be officially accepted in the program.

Program Prerequisites: None.

Required Courses: Credits: 3.5-7.5

Credit hours are subject to change depending on the student's educational experience.
Students must select one of the following three options.

OPTION I: Credits 3.5

Option I is available for students who have completed an Associate in Applied Science degree or higher degree in a health science discipline from a regionally accredited institution of higher education recognized by the Maricopa Community Colleges.

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
 Award Type: CCL
 Effective First Year Term: **2009 Summer I**
 Overall G.P.A.: 2.0

Program Title: Phlebotomy
 Initiating College: PC
 Program Availability: College Specific
 Total Credits: 3.5-7.5

Major Code: 5279
 Initiator: Rochelle Helminski

CIPS Code: 51.1009
 Instructional Council Receiving Proposal: Allied Health (51)

(CCL in Phlebotomy continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

+	HCE109	Phlebotomy: Basic Skills	1
+	HCE111	Specimen Processing and Advanced Techniques in Phlebotomy Procedures	1
+	HCE122	Practicum: Phlebotomy and Specimen Processing	1.5

OPTION II: Credits 3.5

Option II is available for the student who has one year or more of documented experience as a licensed or certified health care professional.

+	HCE109	Phlebotomy: Basic Skills	1
+	HCE111	Specimen Processing and Advanced Techniques in Phlebotomy Procedures	1
+	HCE122	Practicum: Phlebotomy and Specimen Processing	1.5

OPTION III: Credits 7.5

	<u>HCC130</u>	Fundamentals in Health Care Delivery	3
	<u>HCC145AA</u>	Medical Terminology for Health Care Workers I	1
+	HCE109	Phlebotomy: Basic Skills	1
+	HCE111	Specimen Processing and Advanced Techniques in Phlebotomy Procedures	1
+	HCE122	Practicum: Phlebotomy and Specimen Processing	1.5

Restricted Electives: None.

Free Electives: None.

General Education: None.

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: **2009 Summer I**
Overall G.P.A.: 2.00

Program Title: Patient Care Technician
Initiating College: PC
Program Availability: College Specific
Total Credits: 4.5-8.5

Major Code: 5794
Initiator: Helen Houser

CIPS Code: 51.08.99
Instructional Council Receiving Proposal: Allied Health (51)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Certificate of Completion (CCL) in Patient Care Technician is **designed for** a multi-skilled person responsible for direct patient care services under the supervision of a licensed nurse and/or caregiver who has appropriate certification. Responsibilities include: drawing blood, designated procedures and treatment, observing and reporting changes in a patient's condition, performing electrocardiograms, performing urinary catheterizations, applying sterile dressings, documenting correctly, maintaining patient confidentiality, and recognizing legal and ethical commitments. The Patient Care Technician program prepares individuals for entry-level positions in hospitals or other health care settings. Students will be in contact with potentially infectious blood, tissues, and body fluids.

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.

Prior to Externship(s)/Practicum(s), students must submit **to a drug screening and demonstrate negative results.**

~~current CPR card for Health Care Provider and maintain current status throughout the externship(s)/practicum(s), complete and submit the required proof of immunity and health declaration form signed by a licensed health care provider, submit to a drug screening and demonstrate negative results, and submit current fingerprinting clearance card.~~

Admission Criteria:

Must be a high school graduate or equivalent. Submit current/~~valid~~ Nursing Assistant Certificate **required** from the state of Arizona ~~required~~.

Have the ability to fully participate in classroom, laboratory, and clinical setting program activities.

Submit current CPR card for Health Care Provider and maintain current status throughout the externship(s)/practicum(s).

Complete and submit the required proof of immunity and health declaration form signed by a licensed health care provider. Submit current fingerprinting clearance card.

Program Prerequisites: Credits: 4

The credit hour ranges are subject to change depending on the students' educational experiences. Students must select Option 1 or Option II or Option III.

OPTION I: Credits: 0

HCC130 (3.0) and HCC145AA (1.0) are waived for students who have completed an Associate in Applied Science ~~degree~~ or higher degree in a health science discipline from a regionally accredited institution of higher education recognized by ~~the~~ Maricopa Community Colleges.

OPTION II: Credits: 0

HCC courses, HCC130 (3.0) and HCC145AA (1.0), may be waived by the Program Director for the student who has one year or more of documented experience as a licensed or certified health care professional.

OPTION III: Credits: 4

HCC130	Fundamentals in Health Care Delivery	3
HCC145AA	Medical Terminology for Health Care Workers I	1

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: **2009 Summer I**
Overall G.P.A.: 2.00

Program Title: Patient Care Technician
Initiating College: PC
Program Availability: College Specific
Total Credits: 4.5-8.5

Major Code: 5794
Initiator: Helen Houser

CIPS Code: 51.08.99
Instructional Council Receiving Proposal: Allied Health (51)

(CCL in Patient Care Technician continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Required Courses: Credits: 4.5

+ HCE109	Phlebotomy: Basic Skills	1
+ HCE110	Practicum: Fundamental Phlebotomy Skills	0.5
+ HCE261	Applied EKG	1
+ HCE271	Patient Care Technician Skills	1
+ HCE272	Practicum: Patient Care Technician	1

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: 2009 Spring
Overall G.P.A.: 2.00

Program Title: eLearning Design Specialist
Initiating College: RSC
Program Availability: College Specific
Total Credits: 21

Major Code: 5638
Initiator: Jennifer Freed

CIPS Code: 13.05.01
Instructional Council Receiving Proposal: Education (56)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The ~~Certificate of Completion (CCL)~~ in eLearning Design Specialist **program** prepares students to work in the field of instructional design. Students will develop knowledge and skills to custom design and deliver instructional programs and products such as courses, curricula, training documentation, multimedia presentations, and simulations. Courses will focus on eLearning design theory, eLearning environments, and eLearning media and tools. Courses will also prepare students to work in a team-based environment, organize eLearning projects including budgets and timelines, and evaluate eLearning projects. **The program includes a Certificate of Completion (CCL) in eLearning Design Specialist and an Associate in Applied Science (AAS) in eLearning Design Specialist.**

Program Notes:

Students must earn a grade of "C" or better for all courses within the program.

+ indicates course has prerequisite and/or corequisites

Admission Criteria:

Formal application and admission into the eLearning Design Specialist program is required. Applications are available at www.riosalado.edu or from a program advisor.

AND

Completion of an Associate degree or higher degree from a regionally accredited institution of higher education.

OR

+ ENG101	First-Year Composition (3) OR	
+ ENG107	First-Year Composition for ESL (3) OR	
	Equivalent course.	3

AND

+ ENG102	First-Year Composition (3) OR	
+ ENG108	First-Year Composition for ESL (3) OR	
+ ENG111	Technical Writing (3) OR	
	Equivalent course.	3

AND

Any approved General Education course in the Humanities and Fine Arts area OR	
equivalent course.	3

AND

Any approved General Education course in the Social and Behavioral Sciences area OR	
equivalent course.	3

AND

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: 2009 Spring
Overall G.P.A.: 2.00

Program Title: eLearning Design Specialist
Initiating College: RSC
Program Availability: College Specific
Total Credits: 21

Major Code: 5638
Initiator: Jennifer Freed

CIPS Code: 13.05.01
Instructional Council Receiving Proposal: Education (56)

(CCL in eLearning Design Specialist continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Any approved General Education course in the Natural Sciences area OR equivalent course.	4
Program Prerequisites: Credits: 3	
ELN101 eLearning Design Level I	3
Required Courses: Credits: 18	
+ ELN102 eLearning Media Level I	3
+ ELN110 Introduction to eLearning Environments	3
+ ELN120 Organizing and Evaluating eLearning Projects	3
+ ELN202 eLearning Media Level II	3
+ ELN204 eLearning Design Level II	3
+ ELN290AA eLearning Design Internship (1) OR	
+ ELN290AB eLearning Design Internship (2) OR	
+ ELN290AC eLearning Design Internship (3)	3
Restricted Electives: None.	
Free Electives: None.	
General Education: None.	

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: 2009 Spring
Overall G.P.A.: 2.00

Program Title: eLearning Design Specialist
Initiating College: RSC
Program Availability: College Specific
Total Credits: 21

Major Code: 5638
Initiator: Jennifer Freed

CIPS Code: 13.05.01
Instructional Council Receiving Proposal: Education (56)

(CCL in eLearning Design Specialist continued)

Program Addition: AAS/3121: eLearning Design Specialist
Total Credits: 64
Overall G.P.A.: 2.00
CIPS Code: 13.05.01
Program Availability: College Specific

Description: The eLearning Design Specialist program prepares students to work in the field of instructional design. Students will develop knowledge and skills to custom design and deliver instructional programs and products such as courses, curricula, training documentation, multimedia presentations, and simulations. Courses will focus on eLearning design theory, eLearning environments, and eLearning media and tools. Courses will also prepare students to work in a team-based environment, organize eLearning projects including budgets and timelines, and evaluate eLearning projects. The program includes a Certificate of Completion (CCL) in eLearning Design Specialist and an Associate in Applied Science (AAS) in eLearning Design Specialist.

Program Notes:

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

Admission Criteria:

Formal application and admission into the eLearning Design Specialist program is required.
Applications are available at www.riosalado.edu or from a program advisor.

AND

Completion of an Associate degree or higher degree from a regionally accredited institution of higher education.

OR

+ ENG101 First-Year Composition (3) OR
+ ENG107 First-Year Composition for ESL (3) OR
Equivalent course.

AND

+ ENG102 First-Year Composition (3) OR
+ ENG108 First-Year Composition for ESL (3) OR
+ ENG111 Technical Writing (3) OR
Equivalent course.

AND

Any approved General Education course in the Humanities and Fine Arts area OR equivalent course.

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: 2009 Spring
Overall G.P.A.: 2.00

Program Title: eLearning Design Specialist
Initiating College: RSC
Program Availability: College Specific
Total Credits: 21

Major Code: 5638
Initiator: Jennifer Freed

CIPS Code: 13.05.01
Instructional Council Receiving Proposal: Education (56)

(CCL in eLearning Design Specialist continued)

Program Addition: AAS/3121: eLearning Design Specialist
Total Credits: 64
Overall G.P.A.: 2.00
CIPS Code: 13.05.01
Program Availability: College Specific

AND

Any approved General Education course in the Social and Behavioral Sciences area OR equivalent course.

AND

Any approved General Education course in the Natural Sciences area OR equivalent course.

Program Prerequisites: None.

Required Courses: Credits: 21

Certificate of Completion in eLearning Design Specialist (5638) 21

Restricted Electives: Credits: 18

Complete 18 credits from the following courses:

	BPC110	Computer Usage and Applications	3
+	BPC138AA	Windows Desktop Design and Publishing	3
	CIS105	Survey of Computer Information Systems	3
	BPC/CIS118AB	Power Point: Level I	1
+	BPC/CIS118BB	Power Point: Level II	1
	BPC/CIS120DB	Computer Graphics: Adobe Illustrator	3
	BPC/CIS120DC	Flash: Digital Animation	3
	BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
	CIS124AA	Project Management Software: Level I	1
+	CIS124BA	Project Management Software: Level II	1
	BPC/CIS133DA	Internet/Web Development Level I	3
+	CIS233DC	Internet Web Development: Dreamweaver	3
+	CIS/MMT140	Survey of Multimedia Technology	2
	COM263	Elements of Intercultural Communication	3
	GBS131	Business Calculations	3
+	GBS233	Business Communication	3
	MGT101	Techniques of Supervision	3
	MGT172	Organizations, Paradigms, and Change	1
	MGT175	Business Organization and Management	3
	MGT251	Human Relations in Business	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: 2009 Spring
Overall G.P.A.: 2.00

Program Title: eLearning Design Specialist
Initiating College: RSC
Program Availability: College Specific
Total Credits: 21

Major Code: 5638
Initiator: Jennifer Freed

CIPS Code: 13.05.01
Instructional Council Receiving Proposal: Education (56)

(CCL in eLearning Design Specialist continued)

Program Addition: AAS/3121: eLearning Design Specialist
Total Credits: 64
Overall G.P.A.: 2.00
CIPS Code: 13.05.01
Program Availability: College Specific

Free Electives: None.

General Education Requirements: Credits: 25

CORE: Credits: 15

First-Year Composition

- + ENG101 First-Year Composition (3) OR
- + ENG107 First-Year Composition for ESL (3) OR
Equivalent Course

AND

- + ENG102 First-Year Composition (3) OR
- + ENG108 First-Year Composition for ESL (3) OR
- + ENG111 Technical Writing (3) OR
Equivalent Course

6

Oral Communication

- COM100 Introduction to Human Communication (3) OR
- COM110 Interpersonal Communication (3) OR
- + COM230 Small Group Communication (3) OR
- + COM259 Communication in Business and Professions (3)

3

Critical Reading

- + CRE101 Critical and Evaluative Reading I (3) OR
- + CRE111 Critical Reading for Business and Industry (3)

3

Mathematics

- + MAT122 Intermediate Algebra (3) OR
- + MAT142 College Mathematics (3) OR
- + MAT151 College Algebra / Functions (3) OR
- + MAT156 Mathematics for Elementary Teachers I (3) OR
- + MAT157 Mathematics for Elementary Teachers II (3)
- + MAT172 Finite Mathematics (3) OR
- + MAT182 Plane Trigonometry (3) OR
- + MAT212 Brief Calculus (3)

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM
Award Type: CCL
Effective First Year Term: 2009 Spring
Overall G.P.A.: 2.00

Program Title: eLearning Design Specialist
Initiating College: RSC
Program Availability: College Specific
Total Credits: 21

Major Code: 5638
Initiator: Jennifer Freed

CIPS Code: 13.05.01
Instructional Council Receiving Proposal: Education (56)

(CCL in eLearning Design Specialist continued)

Program Addition: AAS/3121: eLearning Design Specialist
Total Credits: 64
Overall G.P.A.: 2.00
CIPS Code: 13.05.01
Program Availability: College Specific

DISTRIBUTION: Credits: 10

Humanities and Fine Arts

**Any approved general education course in the Humanities and Fine Arts area OR
Equivalent course**

3

Social and Behavioral Sciences

**Any approved general education course in the Social and Behavioral Sciences area OR
Equivalent course**

3

Natural Sciences

**Any approved general education course in the Natural Sciences area OR
Equivalent course**

4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM	Program Title: Early Childhood Development
Award Type: AAS	Initiating College: SCC
Effective First Year Term: 2009 Summer I	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 64-66
Major Code: 3360	CIPS Code: 19.07.06
Faculty Initiator: Rosanne Dlugosz	Instructional Council: Early Childhood Education (62)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Program Title To: Early Learning and Development
Proposed Total Program Credits To: 66-68
Proposed Program Availability To: Shared by RSC, SCC
Proposed Major Code To: 3124

Description: The **Associate in Applied Science (AAS) in Early Childhood Learning and Development** program is designed to prepare individuals to enter the workforce as Early Childhood Professionals and to assist individuals employed in the field to upgrade and expand their skills. The program emphasizes the roles of early care and education professionals, families and the wider society as they together meet the contemporary needs of young children. Course work includes the principles of developmental science, professionalism in early childhood work, philosophies and methods of early learning, and the impact of standards on practice. To apply planning, management and evaluation skills, students will **observe**, participate, and **intern** in the ~~SCC Play Lab~~ and may intern at the nationally accredited ~~SCC Child Enrichment Center~~ as well as local **state licensed** early childhood programs.

~~In addition to an Associate in Applied Science (AAS) Degree in Early Childhood Development, the program offers a Certificate of Completion in Early Childhood Development and a Certificate of Completion in Infant Toddler Development.~~

Program Notes:

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

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: ~~35~~ **34**

ECH128	Early Learning: Play and the Arts	3
EED200	Foundations of Early Childhood Education	3
EED212	Guidance, Management and the Environment	3
EED215	Early Learning: Health, Safety, Nutrition and Fitness	3
EED220	Child, Family, Community and Culture	3
EED222	Introduction to the Exceptional Young Child: Birth to Age Eight	3
EED250	Early Literacy Development	3
EED245	Early Learning: Language Acquisition and Literacy Development	3
+ EED255	Portfolio Development and Writing for the Profession	3

Students are required to complete a total of four (4) credits:

+ EED260	Early Childhood Infant/Toddler Internship (1)	2
+ EED261	Early Childhood Preschool Internship (1)	2

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM	Program Title: Early Childhood Development
Award Type: AAS	Initiating College: SCC
Effective First Year Term: 2009 Summer I	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 64-66
Major Code: 3360	CIPS Code: 19.07.06
Faculty Initiator: Rosanne Dlugosz	Instructional Council: Early Childhood Education (62)

(AAS in Early Childhood Development continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Program Title To: Early Learning and Development
Proposed Total Program Credits To: 66-68
Proposed Program Availability To: Shared by RSC, SCC
Proposed Major Code To: 3124

+ EED278	Early Learning: Curriculum and Instruction – Birth/Preschool	3
+ EED280	Standards, Observation & Assessment of Typical/Atypical Behaviors of Young Children Birth Age Eight (3) OR	3
CFS181	Enhancing Infant and Toddler Development (3)	
ITD205	Emerging Individuality	1

Students must select from the following courses for a total of 4 credits:

+ EED260	Early Childhood Infant/Toddler Internship (1)	2
+ EED261	Early Childhood Preschool Internship (1)	2-4

Restricted Electives: Credits: 4 7

CFS181	Enhancing Infant and Toddler Development	3
CFS/ECH120	Contemporary Issues in Early Childhood	1
ECH126AB	Play Lab-Toddlers	1
ECH/ITD183	Infant/Toddler Learning Materials	1
ECH237	Media for Young Children	1
ECH272	Science for the Young Child	1
ECH273	Math for the Young Child	1
ECH276	Musical Beginnings	1
+ ECH296WB	Cooperative Education	2
+ EED280	Standards, Observation and Assessment in Early Education	3

Any CFS, ECH, EED, ITD or FCS prefixed courses not listed in the Required Courses Area

CFS+++++	Any CFS Child/Family Studies course(s)	1-7
ECH+++++	Any ECH Early Childhood Education course(s) except courses used to satisfy Required Courses area.	1-7
EED+++++	Any EED Early Education course(s) except courses used to satisfy Required Courses area.	1-7
ITD+++++	Any ITD Infant/Toddler Development course(s)	1-7
FCS+++++	Any FCS Family and Consumer Science course(s)	1-7

Free Electives: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM	Program Title: Early Childhood Development
Award Type: AAS	Initiating College: SCC
Effective First Year Term: 2009 Summer I	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 64-66
Major Code: 3360	CIPS Code: 19.07.06
Faculty Initiator: Rosanne Dlugosz	Instructional Council: Early Childhood Education (62)

(AAS in Early Childhood Development continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Program Title To: Early Learning and Development
Proposed Total Program Credits To: 66-68
Proposed Program Availability To: Shared by RSC, SCC
Proposed Major Code To: 3124

General Education: 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) | 6 |

Oral Communication

Any approved general education course from the Oral Communication area.	3
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Critical Reading

- | | | |
|----------|---|---|
| + CRE101 | Critical and Evaluative Reading I (3) OR
Equivalent as indicated by assessment. | 3 |
|----------|---|---|

Mathematics

Any approved general education course from the Mathematics area.	3-5
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DISTRIBUTION: Credits: 10

Humanities and Fine Arts

Any approved general education course in the Humanities and Fine Arts area.	3
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EDU/ENH291 Children's Literature	3
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Social and Behavioral Sciences

CFS/ECH176 Child Development	3
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Natural Sciences

Any approved general education course from the Natural Sciences area.	4
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ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Administration of Justice Studies
Initiating College:SCC
Program Availability:College Specific
Total Credits:64-66

Major Code:3396
Initiator:John Kavanagh

CIPS Code:43.01.04
Instructional Council Receiving Proposal:Administration of Justice Studies (01)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 61-63

Description: The Administration of Justice Studies program is designed to prepare men and women for careers in the fields of law enforcement and related technical occupations. The program also provides practitioners within the criminal justice field the opportunity for continuing education and growth and development, or the foundation to continue their education at a four-year institution. Upon satisfactory completion of the outlined program, the students will receive an Associate in Applied Science (AAS) in Administration of Justice Studies.

A Certificate of Completion in Police Academy Preparation has been incorporated within the Administration of Justice Studies program. The Maricopa Community College District in conjunction with the Arizona Peace Officer Standards and Training (POST) Board, which has statutory responsibility for law enforcement officer training in Arizona, has established the Police Academy Preparation program. This program allows students to fulfill a portion of their Academy studies at a community college.

A Certificate of Completion in Crime Scene Technology is also available within the program. This certificate offers the students an opportunity to specialize in this important and expanding area of law enforcement.

The Certificate of Completion in Justice Studies will provide a core of courses for students who are interested in pursuing a career in Justice Studies but have previously received a degree in a different field of study. For students who are pursuing an AAS degree in Justice Studies, completion of the certificate will provide an area of specialization within their degree program. Certificates of Completion in Law Enforcement and Law Enforcement Supervision are also available within the program which allows the student to specialize in this area of Justice Studies.

Program Notes: Students must earn a grade of "C" or better in all courses within the program.

+ indicates course has prerequisite and/or corequisites

++ indicates any module.

Admission Criteria:None

Program Prerequisites:None

Required Courses:Credits: ~~27~~ 18

AJS101	Introduction to Criminal Justice	3
AJS109	Substantive Criminal Law	3
AJS201	Rules of Evidence	3
AJS210	Constitutional Law	3
AJS212	Juvenile Justice Procedures	3
AJS225	Criminology	3
AJS230	The Police Function	3
AJS240	The Correction Function	3
AJS260	Procedural Criminal Law	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Administration of Justice Studies
Initiating College:SCC
Program Availability:College Specific
Total Credits:64-66

Major Code:3396
Initiator:John Kavanagh

CIPS Code:43.01.04
Instructional Council Receiving Proposal:Administration of Justice Studies (01)

(AAS in Administration of Justice Studies continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 61-63

Restricted Electives: Credits:15-21

Students may select any ~~15~~ **21** credits of AJS+++++ and JUD+++++ courses listed in the college catalog including any AJS Certificates of Completion offered at Scottsdale Community College, **except courses used to satisfy Required Courses and General Education areas.**

Free Electives: None

General Education: 22-24

CORE:Credits:15-17

First-Year Composition

Any approved ~~General studies~~ **Education** course in the First-Year Composition area 6

Oral Communication

COM100 Introduction to Human Communication (3) or

COM100AA Introduction to Human Communication Part I (1) and
 COM100AB Introduction to Human Communication Part II (1) and
 COM100AC Introduction to Human Communication Part III (1) or

COM225 Public Speaking (3) 3

Critical Reading

CRE101 Critical and Evaluative Reading I (3) or equivalent as indicated by assessment 3

Mathematics

Any approved ~~General studies~~ **Education** course in the Mathematics area 3-5

DISTRIBUTION:Credits:7

Humanities and Fine Arts

AJS123 Ethics and the Administration of Justice 3

Natural Sciences

Any approved ~~General studies~~ **Education** course in the Natural Sciences area 4

Social and Behavioral Sciences

Met by AJS101 in the Required Courses area 0

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Justice Studies
Initiating College:SCC
Program Availability:College Specific
Total Credits:15

Major Code:5861
Initiator:John Kavanagh

CIPS Code: 43.01.04
Instructional Council Receiving Proposal: Administration of Justice Studies (01)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Certificate of Completion (**CCL**) in Justice Studies will provide a core of courses for students who are interested in pursuing a career in Justice Studies but have previously received a degree in a different field of study. For students who are pursuing an Associate in Applied Science (AAS) in Justice Studies, completion of the certificate will provide an area of specialization within their degree program.

Program Notes:

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

Admission Criteria: None.

Program Prerequisites: None.

Required Courses: Credits: 15

AJS101	Introduction to Criminal Justice	3
AJS119	Computer Application in Criminal Justice Studies	3
+ AJS217	Court Procedures	3
AJS230	The Police Function	3
AJS240	The Correction Function	3
AJS275	Criminal Investigation I	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT: Cisco Networking Professional
Initiating College:SM
Program Availability:College Specific
Total Credits: 63-66

Major Code:3095
Initiator: Frank Torres

CIPS Code: 11.10.02
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 65-68

Description: The Associate in Applied Science (AAS) degree in Information Technology: Cisco Networking Professional program focuses on the skills needed to prepare for industry-recognized certifications with an emphasis on certifications at the professional-level. Knowledge and skills are developed to install, configure, maintain, and troubleshoot Cisco routers and components, advanced routing protocols, Local Area Networks (LANs), and Wide Area Networks (WANs); troubleshoot problems with various common hardware and software configurations; perform administrative tasks in a network. Courses in the program also focus on the skills needed to prepare for various Cisco certifications including the Cisco Certified Networking Associate (CCNA) and Cisco Certified Network Professional Certifications (CCNP). A Certificate of Completion (CCL) is also available.

Program Notes:

+ indicates course has prerequisite and/or corequisites

++ indicate any module

Students must earn a grade of "C" or better in all courses within the program.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria:None

Program Prerequisites:Credits: 4 ~~3~~

CIS105	Survey of Computer Information Systems (3) AND	
BPC121AB	Microsoft Command Line Operations (1) OR	
	permission of Program Director	4-3

Required Courses: ~~35-36~~ **37-38**

CNT140	Cisco Networking Basics (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	4
+ CNT150	Cisco Networking Router Technologies (4) OR	
+ CNT150AA	Cisco Routing Protocols and Concepts (4)	4
+ CNT160	Cisco Switching Basics and Intermediate Routing	3
+ CNT160AA	Cisco Local Area Networking (LAN) Switching and Wireless	4
+ CNT170	Cisco Wide Area Networks (WAN) Technologies	3
+ CNT170AA	Cisco Accessing the Wide-Area Network (WAN)	4
Area Note: Students must take 15-16 credits of CNT18+ and/or CNT2++ s in any combination.		
+ CNT18+	Cisco (any CNT18+) OR	
+ CNT2++	Cisco (any CNT2++)	15-16
CIS126DL	Linux Operating System (3) OR	
CIS126DA	Unix Operating System (3)	3
MST150++	Microsoft Windows (any MST150++ module)	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT: Cisco Networking Professional
Initiating College:SM
Program Availability:College Specific
Total Credits: 63-66

Major Code:3095
Initiator: Frank Torres

CIPS Code: 11.10.02
Instructional Council Receiving Proposal:Computer Information Systems (12)

(AAS in Cisco Networking Professional continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 65-68

Restricted Electives: Credits: 3

+ BPC170	Computer Maintenance I: A+ Prep	3
+ CIS15+	Programming (any CIS15+)	3
+ CIS15+++	Programming (any CIS15+++ module)	3
CIS190	Introduction to Local Area Networks	3
MST140	Microsoft Networking Essentials	3

Free Electives:None

General Education: 25-27

CORE: Credits: 15-17

First-Year Composition

Any approved General Education course in the First-Year Composition Area 6

Oral Communication

Any approved General Education course in the Oral Communication Area 3

Critical Reading

Any approved General Education course in the Critical Reading Area 3

Mathematics

MAT120 Intermediate Algebra (5) OR
 Satisfactory completion of a higher level mathematics course 3-5

Distribution Credits: 10

Humanities and Fine Arts

Any approved General Education course in the Humanities and Fine Arts Area 3

Social and Behavioral Sciences

Any approved General Education course in the Social and Behavioral Sciences Area 3

Natural Sciences

Any approved General Education course in the Natural Sciences Area 4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
 Award Type:**CCL**
 Effective First Year Term:**2009 Spring**
 Overall G.P.A.: **2.50**

Program Title:IT: Cisco Networking Professional
 Initiating College:**SM**
 Program Availability:**College Specific**
 Total Credits: **38-39**

Major Code:**5526**
 Initiator: **Frank Torres**

CIPS Code: **11.10.02**
 Instructional Council Receiving Proposal:**Computer Information Systems (12)**

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 37-38

Description: The Certificate of Completion (CCL) in Information Technology: Cisco Networking Professional program focuses on the skills needed to prepare for industry-recognized certifications with an emphasis on certifications at the professional-level. Knowledge and skills are developed to install, configure, maintain, and troubleshoot Cisco routers and components, advanced routing protocols, Local Area Networks (LANs), and Wide Area Networks (WANs); troubleshoot problems with various common hardware and software configurations; perform administrative tasks in a network. Courses in the program also focus on the skills needed to prepare for various Cisco certifications including the Cisco Certified Networking Associate (CCNA) and Cisco Certified Network Professional Certifications (CCNP). Associate in Applied Science (AAS) is also available.

Program Notes:

+ indicates course has prerequisite and/or corequisites

++ indicate any module

Students must earn a grade of "C" or better in all courses within the program.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria: None

Program Prerequisites: Credits: **4 3**

CIS105	Survey of Computer Information Systems (3) AND	
BPC121AB	Microsoft Command Line Operations (1) OR	
	permission of Program Director	4-3

Required Courses: ~~35-36~~ **37-38**

CNT140	Cisco Networking Basics (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	4
+ CNT150	Cisco Networking Router Technologies (4) OR	
+ CNT150AA	Cisco Routing Protocols and Concepts (4)	4
+ CNT160	Cisco Switching Basics and Intermediate Routing	3
+ CNT160AA	Cisco Local Area Networking (LAN) Switching and Wireless	4
+ CNT170	Cisco Wide Area Networks (WAN) Technologies	3
+ CNT170AA	Cisco Accessing the Wide-Area Network (WAN)	4
Area Note: Students must take 15-16 credits of CNT18+ and/or CNT2++ s in any combination.		
+ CNT18+	Cisco (any CNT18+) OR	
+ CNT2++	Cisco (any CNT2++)	15-16
CIS126DL	Linux Operating System (3) OR	
CIS126DA	Unix Operating System (3)	3
MST150++	Microsoft Windows (any MST150++ module)	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT: Cisco Networking Professional
Initiating College:SM
Program Availability:College Specific
Total Credits: 38-39

Major Code:5526
Initiator: Frank Torres

CIPS Code: 11.10.02
Instructional Council Receiving Proposal:Computer Information Systems (12)

(CCL in Cisco Networking Professional continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 37-38

Restricted Electives: Credits: 3

+ BPC170	Computer Maintenance I: A+ Prep	3
+ CIS15+	Programming (any CIS15+)	3
+ CIS15+++	Programming (any CIS15+++ module)	3
CIS190	Introduction to Local Area Networks	3
MST140	Microsoft Networking Essentials	3

Free Electives:None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Network Server
Initiating College:SM
Program Availability:College Specific
Total Credits: 62-64

Major Code:3096
Initiator: Frank Torres

CIPS Code: 11.09.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 63-65

Description:The Associate in Applied Science (AAS) in Information Technology: Network Server program focuses on the skills needed to install, implement, manage, and troubleshoot networks and systems in both a Linux and Microsoft server environment. Most complex networking environments today include multiple operating system platforms which include Unix/Linux and Microsoft servers. A Certificate of Completion (CCL) is also available.

Program Notes:

+ indicates course has prerequisite and/or corequisites

++ indicates any module

Students must earn a grade of "C" or better in all courses within the program.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria:None

Program Prerequisites: Credits: 4 3

CIS105	Survey of Computer Information Systems (3) AND	
BPC121AB	Microsoft Command Line Operations (4) OR	
	permission of Program Director	4-3

Required Courses: Credits 28- 29

CIS126DL	Linux Operating System (3) OR	
CIS126DA	UNIX Operating System (3)	3
+ CIS238	Advanced UNIX System Administration (3) OR	
+ CIS238DL	Linux System Administration (3)	3
+ ITS110	Information Security Fundamentals	4
CNT140	Cisco Networking Basics (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	4
+ CNT150	Cisco Networking Router Technologies (4) OR	
+ CNT150AA	Cisco Routing Protocols and Concepts (4)	4
+ CNT160	Cisco Switching Basics and Intermediate Routing	3
+ CNT160AA	Cisco Local Area Networking (LAN) Switching and Wireless	4
MST150++	Microsoft Windows (any MST150++ module)	3
+ MST152++	Microsoft Windows Server (any MST152++ module)	4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Network Server
Initiating College:SM
Program Availability:College Specific
Total Credits: 62-64

Major Code:3096
Initiator: Frank Torres

CIPS Code: 11.09.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

(AAS in IT: Network Server continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 63-65

Restricted Elective: Credits: 9

+ BPC170	Computer Maintenance I: A+ Prep	3
+ BPC270	Computer Maintenance II: A+ Technician Prep	3
+ CIS15+	Programming (any CIS15+) (3) OR	
+ CIS15+++	Programming (any CIS15+++ module) (3)	3
+ CNT170	Cisco Wide Area Networks (WAN) Technologies	3
+ CNT170AA	Cisco Accessing the Wide-Area Network (WAN)	4
CIS190	Introduction to Local Area Networks (3) OR	
MST140	Microsoft Networking Essentials (3)	3
+ MST15+	Microsoft Windows (any MST15+)	3-4
+ MST2++	Microsoft (any MST2++)	3-4

Free Electives: None

General Education:Credits: 25-27

CORE: Credits: 15-17

First-Year Composition

Any approved General Education course in the First-Year Composition Area 6

Oral Communication

Any approved General Education course in the Oral Communication Area 3

Critical Reading

Any approved General Education course in the Critical Reading Area 3

Mathematics

MAT120 Intermediate Algebra (5) OR
 Satisfactory completion of a higher level mathematics course 3-5

Distribution Credits: 10

Humanities and Fine Arts

Any approved General Education course in the Humanities and Fine Arts Area 3

Social and Behavioral Sciences

Any approved General Education course in the Social and Behavioral Sciences Area 3

Natural Sciences

Any approved General Education course in the Natural Sciences Area 4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT: Network Server
Initiating College:SM
Program Availability:College Specific
Total Credits: 37

Major Code:5529
Initiator: Frank Torres

CIPS Code: 11.09.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 38

Description: The Certificate of Completion (CCL) in Information Technology: Network Server program focuses on the skills needed to install, implement, manage, and troubleshoot networks and systems in both a Linux and Microsoft server environment. Most complex networking environments today include multiple operating system platforms which include Unix/Linux and Microsoft servers. An Associate in Applied Science (AAS) is also available.

Program Notes:

+ indicates course has prerequisite and/or corequisites

++ indicates any module

Students must earn a grade of "C" or better in all courses within the program.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria: None

Program Prerequisites: Credits: 4 3

CIS105	Survey of Computer Information Systems (3) AND	
BPC121AB	Microsoft Command Line Operations (4) OR	
	permission of Program Director	4- 3

Required Courses: Credits 28- 29

CIS126DL	Linux Operating System (3) OR	
CIS126DA	UNIX Operating System (3)	3
+ CIS238	Advanced UNIX System Administration (3) OR	
+ CIS238DL	Linux System Administration (3)	3
+ ITS110	Information Security Fundamentals	4
CNT140	Cisco Networking Basics (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	4
+ CNT150	Cisco Networking Router Technologies (4) OR	
+ CNT150AA	Cisco Routing Protocols and Concepts (4)	4
+ CNT160	Cisco Switching Basics and Intermediate Routing	3
+ CNT160AA	Cisco Local Area Networking (LAN) Switching and Wireless	4
MST150++	Microsoft Windows (any MST150++ module)	3
+ MST152++	Microsoft Windows Server (any MST152++ module)	4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
 Award Type:**CCL**
 Effective First Year Term:**2009 Spring**
 Overall G.P.A.: **2.50**

Program Title:IT: Network Server
 Initiating College:**SM**
 Program Availability:**College Specific**
 Total Credits: **37**

Major Code:**5529**
 Initiator: **Frank Torres**

CIPS Code: **11.09.01**
 Instructional Council Receiving Proposal:**Computer Information Systems (12)**

(CCL in IT: Network Server continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 38

Restricted Elective: Credits: 9

+ BPC170	Computer Maintenance I: A+ Prep	3
+ BPC270	Computer Maintenance II: A+ Prep	3
+ CIS15+	Programming (any CIS15+) (3) OR	
+ CIS15+++	Programming (any CIS15+++ module) (3)	3
+ CNT170	Cisco Wide Area Networks (WAN) Technologies	3
+ CNT170AA	Cisco Accessing the Wide-Area Network (WAN)	4
CIS190	Introduction to Local Area Networks (3) OR	
MST140	Microsoft Networking Essentials (3)	3
+ MST15+	Microsoft Windows (any MST15+)	3-4
+ MST2++	Microsoft (any MST2++)	3-4

Free Electives: None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Network Security
Initiating College:SM
Program Availability:College Specific
Total Credits: 67-70

Major Code:3097
Initiator: Frank Torres

CIPS Code: 11.10.03
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Associate of Applied Science (AAS) in Information Technology: Network Security program is designed to focus on the necessary skills required to secure a network including the security of various operating systems and network devices. Emphasis is placed on developing the theoretical and practical skills needed to maintain security on mission-critical networking and server systems. The program is designed to meet the training needs of government and industry employees. The program covers a variety of information security disciplines which include both vendor-neutral and vendor-specific information technology (IT) security training. The Information Technology: Network Security program also focuses on the skills needed for internationally recognized IT certifications and high demands in business, industry and government. A Certificate of Completion (CCL) is also available.

Program Notes:

+ indicates course has prerequisite and/or corequisites

++ indicates any module

Students must earn a grade of "C" or better in all courses within the program.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria: None

Program Prerequisites: None

Required Courses:	Credits: 39 41	
CIS126DA	UNIX Operating System (3) OR	
CIS126DL	Linux Operating System (3)	3
+ ITS110	Information Security Fundamentals	4
CNT140	Cisco Networking Basics (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	4
+ CNT150	Cisco Networking Router Technologies (4) OR	
+ CNT150AA	Cisco Routing Protocols and Concepts (4)	4
+ CNT160	Cisco Switching Basics and Intermediate Routing	3
+ CNT160AA	Cisco Local Area Networking (LAN) Switching and Wireless	4
+ CNT170	Cisco Wide Area Networks (WAN) Technologies	3
+ CNT170AA	Cisco Accessing the Wide-Area Network (WAN)	4
+ CNT181	Securing Cisco IOS Networks (4) OR	
+ CNT210	Cisco Networking Remote – Access Networks (4)	4
+ CNT182	Cisco Secure PIX Firewall Configuration	3
+ CNT186	Fundamentals of Wireless LANs	4
MST150++	Microsoft Windows (any MST150++ module)	3
+ MST152++	Microsoft Windows Server (any MST152++ module)	4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Network Security
Initiating College:SM
Program Availability:College Specific
Total Credits: 67-70

Major Code:3097
Initiator: Frank Torres

CIPS Code: 11.10.03
Instructional Council Receiving Proposal:Computer Information Systems (12)

(AAS in IT: Network Security continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Restricted Electives:	Credits: 3-4	
+ CIS238	Advanced UNIX System Administration	3
+ CIS238DL	Linux System Administration	3
+ MST15+	Microsoft Windows (any MST15++ module)	3-4
+ MST2++	Microsoft (any MST2++ module)	3-4

Free Electives: None

General Education: Credits: 25-27
 CORE: Credits: 15-17

First-Year Composition		
Any approved General Education course in the First-Year Composition Area		6
Oral Communication		
Any approved General Education course in the Oral Communication Area		3
Critical Reading		
Any approved General Education course in the Critical Reading Area		3
Mathematics		
MAT120 Intermediate Algebra (5) OR		
Satisfactory completion of a higher level mathematics course		3-5
Distribution Credits: 10		
Humanities and Fine Arts		
Any approved General Education course in the Humanities and Fine Arts Area		3
Social and Behavioral Sciences		
Any approved General Education course in the Social and Behavioral Sciences Area		3
Natural Sciences		
Any approved General Education course in the Natural Sciences Area		4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT: Network Security
Initiating College:SM
Program Availability:College Specific
Total Credits: 42-43

Major Code:5530
Initiator: Frank Torres

CIPS Code: 11.10.03
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 44-45

Description: The Certificate of Completion (CCL) in Information Technology: Network Security program is designed to focus on the necessary skills required to secure a network including the security of various operating systems and network devices. Emphasis is placed on developing the theoretical and practical skills needed to maintain security on mission-critical networking and server systems. The program is designed to meet the training needs of government and industry employees. The program covers a variety of information security disciplines which include both vendor-neutral and vendor-specific information technology (IT) security training. The Information Technology: Network Security program also focuses on the skills needed for internationally recognized IT certifications and high demands in business, industry and government. An Associate in Applied Science (AAS) is also available.

Program Notes:

+ indicates course has prerequisite and/or corequisites

++ indicates any module

Students must earn a grade of "C" or better in all courses within the program.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria: None

Program Prerequisites: None

Required Courses:	Credits: 39 41	
CIS126DA	UNIX Operating System (3) OR	
CIS126DL	Linux Operating System (3)	3
+ ITS110	Information Security Fundamentals	4
CNT140	Cisco Networking Basics (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	4
+ CNT150	Cisco Networking Router Technologies (4) OR	
+ CNT150AA	Cisco Routing Protocols and Concepts (4)	4
+ CNT160	Cisco Switching Basics and Intermediate Routing	3
+ CNT160AA	Cisco Local Area Networking (LAN) Switching and Wireless	4
+ CNT170	Cisco Wide Area Networks (WAN) Technologies	3
+ CNT170AA	Cisco Accessing the Wide-Area Network (WAN)	4
+ CNT181	Securing Cisco IOS Networks (4) OR	
+ CNT210	Cisco Networking Remote – Access Networks (4)	4
+ CNT182	Cisco Secure PIX Firewall Configuration	3
+ CNT186	Fundamentals of Wireless LANs	4
+ MST150++	Microsoft Windows (any MST150++ module)	3
+ MST152++	Microsoft Windows Server (any MST152++ module)	4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT: Network Security
Initiating College:SM
Program Availability:College Specific
Total Credits: 42-43

Major Code:5530
Initiator: Frank Torres

CIPS Code: 11.10.03
Instructional Council Receiving Proposal:Computer
Information Systems (12)

(CCL in IT: Network Security continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 44-45

Restricted Electives:	Credits: 3-4	
+ CIS238	Advanced UNIX System Administration	3
+ CIS238DL	Linux System Administration	3
+ MST15+	Microsoft Windows (any MST15++ module)	3-4
+ MST2++	Microsoft (any MST2++ module)	3-4

Free Electives: None

General Education:None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM	Program Title:IT:Computer Applications Specialist
Award Type:AAS	Initiating College:SM
Effective First Year Term:2009 Spring	Program Availability:College Specific
Overall G.P.A.: 2.50	Total Credits: 61-65

Major Code:3098	CIPS Code: 11.08.99
Initiator: Frank Torres	Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Associate in Applied Science (AAS) degree in Information Technology: Computer Applications Specialist is designed to enhance the information technology skills gained, focusing on advanced software skills - including application implementation, development, and operating systems - necessary for entry-level software technician support positions. A Certificate of Completion (CCL) is also available.

Program Notes:

+ indicates course has prerequisites and/or corequisites.

Students must earn a grade of "C" or better for all courses within the program.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria:None

Program Prerequisites:None

Required Courses:Credits: 21-22

BPC/CIS114DE	Excel Spreadsheet	3
BPC/CIS117DM	Microsoft Access: Database Management	3
BPC/CIS118DB	Desktop Presentation: PowerPoint	3
CIS105	Survey of Computer Information Systems	3
+ CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basic (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	3-4
GBS151	Introduction to Business	3
MST150++	Microsoft Windows (any MST150++ module)	3

Restricted Electives:Credits: 15-16

BPC/CIS120AK	Introduction to Digital Video Editing	1
BPC/CIS120DC	Flash: Digital Animation	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
BPC/CIS120DH	Computer Graphics: Microsoft Visio	3
BPC/CIS121AB	Microsoft Command Line Operations	1
BPC/CIS121AE	Windows Operating System: Level I	1
CIS126DL	Linux Operating System	3
+ BPC/CIS138DA	Desktop Design and Publishing Using Adobe InDesign	3
+ BPC170	Computer Maintenance I: A+ Prep	3
BPC/CIS133DA	Internet/Web Development Level I	3
+ CIS159	Visual Basic Programming I (3) OR	
+ CIS162AD	C#: Level I (3) OR	
+ CIS163AA	Java Programming: Level I (3)	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Computer Applications Specialist
Initiating College:SM
Program Availability:College Specific
Total Credits: 61-65

Major Code:3098
Initiator: Frank Torres

CIPS Code: 11.08.99
Instructional Council Receiving Proposal:Computer Information Systems (12)

(AAS in IT: Computer Applications Specialist continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

+ CIS169	Introduction to Visual Basic for Applications	3
+ BPC/CIS214DE	Advanced Excel Spreadsheet: Level II	3
+ BPC/CIS217AM	Advanced Microsoft Access: Database Management	3
+ BPC/CIS220DF	Advanced Photoshop	3
+ CIS238DL	Linux System Administration	3
+ MST152++	Microsoft Windows Server (any MST152++ module)	4

Free Electives:None

General Education:Credits: 25-27

CORE: Credits: 15-17

First-Year Composition

Any approved General Education course in the First-Year Composition Area 6

Oral Communication

Any approved General Education course in the Oral Communication Area 3

Critical Reading

Any approved General Education course in the Critical Reading Area 3

Mathematics

MAT120 Intermediate Algebra (5) OR
 Satisfactory completion of a higher level mathematics course 3-5

Distribution Credits: 10

Humanities and Fine Arts

Any approved General Education course in the Humanities and Fine Arts Area 3

Social and Behavioral Sciences

Any approved General Education course in the Social and Behavioral Sciences Area 3

Natural Sciences

Any approved General Education course from the Natural Sciences Area 4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Computer Applications Specialist
Initiating College:SM
Program Availability:College Specific
Total Credits: 36-38

Major Code:5201
Initiator: Frank Torres

CIPS Code: 11.08.99
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Certificate of Completion (CCL) in Information Technology: Computer Applications Specialist is designed to enhance the information technology skills gained through the Certificate in Information Technology, focusing on advanced Microsoft software skills - including application implementation, development, and operating systems - necessary for entry-level software technician support positions. An Associate in Applied Science (AAS) is also available.

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

Admission Criteria:None

Program Prerequisites:None

Required Courses:Credits: 21-22

BPC/CIS114DE	Excel Spreadsheet	3
BPC/CIS117DM	Microsoft Access: Database Management	3
BPC/CIS118DB	Desktop Presentation: PowerPoint	3
CIS105	Survey of Computer Information Systems	3
+ CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basic (4) OR	
CNT140AA	Cisco Networking Fundamentals (4)	3-4
GBS151	Introduction to Business	3
MST150++	Microsoft Windows (any MST150++ module)	3

Restricted Electives:Credits: 15-16

BPC/CIS120AK	Introduction to Digital Video Editing	1
BPC/CIS120DC	Flash: Digital Animation	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
BPC/CIS120DH	Computer Graphics: Microsoft Visio	3
BPC/CIS121AB	Microsoft Command Line Operations	1
BPC/CIS121AE	Windows Operating System: Level I	1
CIS126DL	Linux Operating System	3
+ BPC/CIS138DA	Desktop Design and Publishing Using Adobe InDesign	3
+ BPC170	Computer Maintenance I: A+ Prep	3
BPC/CIS133DA	Internet/Web Development Level I	3
+ CIS159	Visual Basic Programming I (3) OR	
+ CIS162AD	C#: Level I (3) OR	
+ CIS163AA	Java Programming: Level I (3)	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Computer Applications Specialist
Initiating College:SM
Program Availability:College Specific
Total Credits: 36-38

Major Code:5201
Initiator: Frank Torres

CIPS Code: 11.08.99
Instructional Council Receiving Proposal:Computer Information Systems (12)

(CCL in IT: Computer Applications Specialist continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

+ CIS169	Introduction to Visual Basic for Applications	3
+ BPC/CIS214DE	Advanced Excel Spreadsheet: Level II	3
+ BPC/CIS217AM	Advanced Microsoft Access: Database Management	3
+ BPC/CIS220DF	Advanced Photoshop	3
+ CIS238DL	Linux System Administration	3
+ MST152++	Microsoft Windows Server (any MST152++ module)	4

Free Electives:None

General Education:None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM Award Type: AAS Effective First Year Term: 2009 Spring Overall G.P.A.: 2.50	Program Title:IT:Programming and System Analysis Initiating College: SM Program Availability: College Specific Total Credits: 61-65
Major Code: 3099 Initiator: Frank Torres	CIPS Code: 11.05.01 Instructional Council Receiving Proposal: Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Associate in Applied Science (AAS) degree in Information Technology: Programming and Systems Analysis focuses on the analysis, design, and programming skills necessary for entry-level computer programming support positions. 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.
+ indicates course has prerequisites and/or corequisites.
Students should select from the following courses in consultation with a department advisor.

Admission Criteria:None

Program Prerequisites:None

Required Courses:Credits: 21-22

	CIS105	Survey of Computer Information Systems	3
+	CIS190	Introduction to Local Area Networks (3) OR	
	CNT140	Cisco Networking Basic (4) OR	
	CNT140AA	Cisco Networking Fundamentals (4) OR	
	MST150++	Microsoft Windows (Any MST150++ module) (3)	3-4
+	CIS159	Visual Basic Programming I	3
+	CIS162AD	C #: Level I (3) OR	
+	CIS163AA	Java Programming: Level I (3)	3
+	CIS225	Business Systems Analysis and Design (3) OR	
+	CIS225AB	Object-Oriented Analysis and Design (3)	3
+	CIS259	Visual Basic Programming II (3) OR	
+	CIS262AD	C #: Level II (3) OR	
+	CIS263AA	Java Programming: Level II (3)	3
	GBS151	Introduction to Business	3

Restricted Electives: Credits: 15-16

	BPC/CIS117DM	Microsoft Access: Database Management	3
	BPC/CIS120DC	Flash: Digital Animation	3
	BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
	CIS126AL	Linux Operating System I (1) OR	
	CIS126DL	Linux Operating System (3)	1-3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM Award Type: AAS Effective First Year Term: 2009 Spring Overall G.P.A.: 2.50 Major Code: 3099 Initiator: Frank Torres	Program Title: IT:Programming and System Analysis Initiating College: SM Program Availability: College Specific Total Credits: 61-65 CIPS Code: 11.05.01 Instructional Council Receiving Proposal: Computer Information Systems (12)
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(AAS in IT: Programming and System Analysis continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

	BPC/CIS133++ Any Internet/Web Development (totaling 3 credits)	3
+ CIS162AD	C#: Level I (3) OR	
+ CIS163AA	Java Programming Level: I	3
+ CIS166++	Web Scripting (Any module)	3
+ BPC/CIS217AM	Advanced MS Access: Database Management	3
+ CIS220DC	Flash: Advanced Animation and ActionScript	3
+ CIS250	Management of Information Systems	3
+ CIS259	Visual Basic Programming II	3
+ CIS262AD	C#: Level II	3
+ CIS263AA	Java Programming: Level II	3
+ CIS298AA	Special Projects	1

Free Electives:None

General Education:Credits: 25-27

CORE: Credits:15-17

First-Year Composition	
Any approved General Education course in the First-Year Composition Area	6
Oral Communication	
Any approved General Education course in the Oral Communication Area	3
Critical Reading	
Any approved General Education course in the Critical Reading Area	3
Mathematics	
MAT120 Intermediate Algebra (5) OR	
Satisfactory completion of a higher level mathematics course	3-5

Distribution Credits: 10

Humanities and Fine Arts	
Any approved General Education course in the Humanities and Fine Arts Area	3
Social and Behavioral Sciences	
Any approved General Education course in the Social and Behavioral Sciences Area	3
Natural Sciences	
Any approved General Education course from the Natural Sciences Area	4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPM	Program Title: IT:Programming and System Analysis
Award Type: AAS	Initiating College: SM
Effective First Year Term: 2009 Spring	Program Availability: College Specific
Overall G.P.A.: 2.50	Total Credits: 36-38
Major Code: 5193	CIPS Code: 11.05.01
Initiator: Frank Torres	Instructional Council Receiving Proposal: Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Certificate of Completion (CCL) in Information Technology: Programming and Systems Analysis is designed to enhance the information technology skills gained through focusing on the analysis, design, and programming skills necessary for entry-level computer programming support positions. An Associate in Applied Science (AAS) is also available.

Program Notes:
 Students must earn a grade of "C" or better in all courses within the program.
 + indicates course has prerequisites and/or corequisites.
 Students should select from the following courses in consultation with a department advisor.

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: 21-22

CIS105	Survey of Computer Information Systems	3
+ CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basic (4) OR	
CNT140AA	Cisco Networking Fundamentals (4) OR	
MST150++	Microsoft Windows (Any MST150++ module) (3)	3-4
+ CIS159	Visual Basic Programming I	3
+ CIS162AD	C #: Level I (3) OR	
+ CIS163AA	Java Programming: Level I (3)	3
+ CIS225	Business Systems Analysis and Design (3) OR	
+ CIS225AB	Object-Oriented Analysis and Design (3)	3
+ CIS259	Visual Basic Programming II (3) OR	
+ CIS262AD	C #: Level II (3) OR	
+ CIS263AA	Java Programming: Level II (3)	3
GBS151	Introduction to Business	3

Restricted Electives:Credits: 15-16

BPC/CIS117DM	Microsoft Access: Database Management	3
BPC/CIS120DC	Flash: Digital Animation	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
CIS126AL	Linux Operating System I (1) OR	
CIS126DL	Linux Operating System (3)	1-3
BPC/CIS133++	Any Internet/Web Development (totaling 3 credits)	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Programming and System Analysis
Initiating College:SM
Program Availability:College Specific
Total Credits: 36-38

Major Code:5193
Initiator: Frank Torres

CIPS Code: 11.05.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

(AAS in IT: Programming and System Analysis continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

+ CIS162AD	C#: Level I (3) OR	
+ CIS163AA	Java Programming Level: I	3
+ CIS166++	Web Scripting (Any module)	3
+ BPC/CIS217AM	Advanced MS Access: Database Management	3
+ CIS220DC	Flash: Advanced Animation and ActionScript	3
+ CIS250	Management of Information Systems	3
+ CIS259	Visual Basic Programming II	3
+ CIS262AD	C#: Level II	3
+ CIS263AA	Java Programming: Level II	3
+ CIS298AA	Special Projects	1

Free Electives:None

General Education:None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Web and Graphic Design
Initiating College:SM
Program Availability:College Specific
Total Credits: 61-65

Major Code:3100
Initiator: Frank Torres

CIPS Code: 11.08.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Applied Sciences (AAS) degree in Information Technology: Web and Graphic Design is designed to enhance the information technology skills gained, focusing on the analysis, design, and programming skills necessary for entry-level computer programming support positions. 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.

+ indicates course has prerequisites and/or corequisites.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: 27-28

CIS105	Survey of Computer Information Systems	3
+ CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basic (4) OR	
CNT140AA	Cisco Networking Fundamentals (4) OR	
MST150++	Microsoft Windows (Any MST150++ module) (3)	3-4
+ BPC/CIS120DC	Flash: Digital Animation	3
+ BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
BPC/CIS133DA	Internet/Web Development Level I	3
+ CIS220DC	Flash: Advanced Animation and ActionScript	3
+ BPC/CIS220DF	Advanced Photoshop	3
+ CIS235	e-Commerce	3
GBS151	Introduction to Business	3

Restricted Electives: Credits: 9-11

ART100	Introduction to Computer Graphic Art	1
ART111	Drawing I	3
ADA/ART112	Two-Dimensional Design	3
+ ART122	Drawing and Composition II	3
ART131	Photography I (3) OR	
ART142	Introduction to Digital Photography (3)	3
BPC/CIS120AK	Introduction to Digital Video Editing	1
BPC/CIS120D+	Computer Graphics (any D+ module except DC and DF)	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Web and Graphic Design
Initiating College:SM
Program Availability:College Specific
Total Credits: 61-65

Major Code:3100
Initiator: Frank Torres

CIPS Code: 11.08.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

(AAS in IT: Web and Graphic Design continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

CIS126AL	Linux Operating System I (1) OR	
CIS126DL	Linux Operating System (3)	1-3
+ CIS159	Visual Basic Programming I	3
+ CIS162AD	C# Level I	3
+ CIS163AA	Java Programming: Level I	3
+ CIS166++	Web Scripting/Programming (any CIS166++ module)	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS243D+	Internet/Web Development Level III (any CIS243D+ module)	3
+ CIS259	Visual Basic Programming II (3) OR	
CIS262AD	C#: Level II (3) OR	
+ CIS263AA	Java Programming: Level II (3)	3

Free Electives:None

General Education:Credits: 25-27

CORE: Credits:15-17

First-Year Composition		
Any approved General Education course in the First-Year Composition Area		6
Oral Communication		
Any approved General Education course in the Oral Communication Area		3
Critical Reading		
Any approved General Education course in the Critical Reading Area		3
Mathematics		
MAT120 Intermediate Algebra (5) OR		
Satisfactory completion of a higher level mathematics course		3-5
Distribution Credits: 10		
Humanities and Fine Arts		
Any approved General Education course in the Humanities and Fine Arts Area		3
Social and Behavioral Sciences		
Any approved General Education course in the Social and Behavioral Sciences Area		3
Natural Sciences		
Any approved General Education course from the Natural Sciences Area		4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:**CCL**
Effective First Year Term:**2009 Spring**
Overall G.P.A.: **2.50**

Program Title:IT:Web and Graphic Design
Initiating College:**SM**
Program Availability:**College Specific**
Total Credits: **36-39**

Major Code:**5168**
Initiator: **Frank Torres**

CIPS Code: **11.08.01**
Instructional Council Receiving Proposal:**Computer Information Systems (12)**

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Certificate of Completion (CCL) in Information Technology: Web and Graphic Design is designed to enhance the information technology skills gained and focuses on the analysis, design, and programming skills necessary for entry-level web development support positions. An Associate in Applied Science (AAS) is also available.

Program Notes:

Students must earn a grade of "C" or better in all courses within the program.

+ indicates course has prerequisites and/or corequisites.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria:None

Program Prerequisites:None

Required Courses:Credits: 27-28

CIS105	Survey of Computer Information Systems	3
+ CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basic (4) OR	
CNT140AA	Cisco Networking Fundamentals (4) OR	
MST150++	Microsoft Windows (Any MST150++ module) (3)	3-4
+ BPC/CIS120DC	Flash: Digital Animation	3
+ BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
BPC/CIS133DA	Internet/Web Development Level I	3
+ CIS220DC	Flash: Advanced Animation and ActionScript	3
+ BPC/CIS220DF	Advanced Photoshop	3
+ CIS235	e-Commerce	3
GBS151	Introduction to Business	3

Restricted Electives:Credits: 9-11

ART100	Introduction to Computer Graphic Art	1
ART111	Drawing I	3
ADA/ART112	Two-Dimensional Design	3
+ ART122	Drawing and Composition II	3
ART131	Photography I (3) OR	
ART142	Introduction to Digital Photography (3)	3
BPC/CIS120AK	Introduction to Digital Video Editing	1
BPC/CIS120D+	Computer Graphics (any D+ module except DC and DF)	3
CIS126AL	Linux Operating System I (1) OR	
CIS126DL	Linux Operating System (3)	1-3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:IT:Web and Graphic Design
Initiating College:SM
Program Availability:College Specific
Total Credits: 36-39

Major Code:5168
Initiator: Frank Torres

CIPS Code: 11.08.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

(CCL in IT: Web and Graphic Design continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

+ CIS159	Visual Basic Programming I	3
+ CIS162AD	C# Level I	3
+ CIS163AA	Java Programming: Level I	3
+ CIS166++	Web Scripting/Programming (any CIS166++ module)	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS243D+	Internet/Web Development Level III (any CIS243D+ module)	3
+ CIS259	Visual Basic Programming II (3) OR	
+ CIS262AD	C#: Level II (3) OR	
+ CIS263AA	Java Programming: Level II (3)	3

Free Electives:None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:Information Technology
Initiating College:SM
Program Availability:College Specific
Total Credits: 60-70

Major Code:3167
Initiator: Frank Torres

CIPS Code: 11.01.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Description: The Associate in Applied Science (AAS) degree in Information Technology is designed to provide training for positions in the Information Technology field as computer and information technology support specialists, computer applications specialists, programming and systems analysis specialists, design and programming for web developers, information management for administrators, Cisco networking for administrators, network server and network security for systems administrators. A Certificate of Completion is also available.

Program Notes:

+ 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.

Students should select from the following courses in consultation with a department advisor.

Admission Criteria:None

Program Prerequisites:None

Required Courses:

Required Courses: Credits: 9-10

CIS105	Survey of Computer Information Systems	3
+ CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basic (4) OR	
CNT140AA	Cisco Networking Fundamentals (4) OR	
MST150++	Microsoft Windows (Any MST150++ module) (3)	3-4
GBS151	Introduction to Business	3

Restricted Electives: Credits: 26-27

ART100	Introduction to Computer Graphic Art	1
ART111	Drawing I	3
ADA/ART112	Two-Dimensional Design	3
+ ART122	Drawing and Composition II	3
ART131	Photography I (3) OR	
ART142	Introduction to Digital Photography (3)	3
BPC121AB	Microsoft Command Line Operations	1
+ BPC170	Computer Maintenance I: A+ Prep	3
BPC/CIS114DE	Excel Spreadsheet (3) OR	
BPC/CIS114DG	Quattro Pro Spreadsheet (3)	3
BPC/CIS117D+	Database Management (any BPC/CIS117 D module)	3
BPC/CIS118DB	Desktop Presentation: PowerPoint	3
BPC/CIS120AK	Introduction to Digital Video Editing	1

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:Information Technology
Initiating College:SM
Program Availability:College Specific
Total Credits: 60-70

Major Code:3167
Initiator: Frank Torres
Information Systems (12)

CIPS Code: 11.01.01
Instructional Council Receiving Proposal:Computer

(AAS in Information Technology continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

BPC/CIS120D+	Computer Graphics (any BPC/CIS120 D module)	3
BPC/CIS121AB	Microsoft Command Line Operations	1
BPC/CIS121AE	Windows Operating System: Level I	1
BPC/CIS133DA	Internet/Web Development Level I	3
+ BPC/CIS214DE	Advanced Excel Spreadsheet: Level II	3
+ BPC/CIS217AM	Advanced Microsoft Access: Database Management	3
+ BPC/CIS220DF	Advanced Photoshop	3
CIS126AL	Linux Operating System I (1) OR	
CIS126DL	Linux Operating System (3)	1-3
+ CIS15+	Programming (any CIS15+)	3
+ CIS15+++	Programming (any CIS15+++ module)	3
+ CIS16+	Programming (any CIS16+)	3
+ CIS16+++	Programming (any CIS16+++ module)	3
+ CIS190	Introduction to Local Area Networks	3
+ CIS220DC	Flash: Advanced Animation and ActionScript	3
+ CIS225	Business Systems Analysis and Design (3) OR	
+ CIS225AB	Object-Oriented Analysis and Design (3)	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS235	e-Commerce	3
+ CIS238	Advanced UNIX System Administration (3) OR	
+ CIS238DL	Linux System Administration (3)	3
+ CIS243D+	Internet/Web Development (any CIS243D+ module)	3
+ CIS259	Visual Basic Programming II	3
CIS262AD	C# Level II	3
+ CIS263AA	Java Programming: Level II	3
CNT+++++	Cisco (any CNT+++ module)	3-4
+ ITS110	Information Security Fundamentals	4
MST150++	Microsoft Windows (any MST150++ module)	3
+ MST152++	Microsoft Windows (any MST152++ module)	4
+ MST2++	Microsoft (any MST2++)	3-4

Free Electives:None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:AAS
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title:Information Technology
Initiating College:SM
Program Availability:College Specific
Total Credits: 60-70

Major Code:3167
Initiator: Frank Torres

CIPS Code: 11.01.01
Instructional Council Receiving Proposal:Computer Information Systems (12)

(AAS in Information Technology continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

General Education:Credits: 25-27

CORE: Credits: 15-17

First-Year Composition

Any approved General Education course in the First-Year Composition Area 6

Oral Communication

Any approved General Education course in the Oral Communication Area 3

Critical Reading

Any approved General Education course in the Critical Reading Area 3

Mathematics

MAT120 Intermediate Algebra (5) OR
Satisfactory completion of a higher level mathematics course 3-5

Distribution Credits: 10

Humanities and Fine Arts

Any approved General Education course in the Humanities and Fine Arts Area 3

Social and Behavioral Sciences

Any approved General Education course in the Social and Behavioral Sciences Area 3

Natural Sciences

Any approved General Education course in the Natural Sciences Area 4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title: Information Technology Support
Initiating College:SM
Program Availability:College Specific
Total Credits: 21

Major Code:5163
Initiator: Frank Torres

CIPS Code: 11.01.03
Instructional Council Receiving Proposal:Computer Information Systems (12)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 21-22

Description: The Certificate of Completion (CCL) in Information Technology Support program is designed to provide training in the fundamental competencies of information technology in business or industry and prepares the student for employment in entry-level information technology support positions.

Program Notes:
 Grade of "C" or better is required for all courses within the program
 + indicates course has prerequisites and/or corequisites.
 ++ indicates any module.

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: 9-10

CIS105	Survey of Computer Information Systems	3
+ CIS190	Introduction to Local Area Networks (3) OR	
CNT140	Cisco Networking Basic (4) OR	
CNT140AA	Cisco Networking Fundamentals (4) OR	
MST150++	Microsoft Windows (Any MST150++ module) (3)	3-4
GBS151	Introduction to Business	3

Restricted Electives: Credits: 11-12

BPC121AB	Microsoft Command Line Operations	1
+ BPC170	Computer Maintenance I: A+ Prep	3
BPC/CIS114D+	Spreadsheet (any BPC/CIS114 D module)	3
BPC/CIS117D+	Database Management (any BPC/CIS117 D module)	3
BPC/CIS120D+	Computer Graphics (any BPC/CIS120 D module)	3
BPC/CIS121AB	Microsoft Command Line Operations	1
BPC/CIS121AE	Windows Operating System: Level I	1
CIS126AL	Linux Operating System I (1) OR	
CIS126DL	Linux Operating System (3)	1-3
BPC/CIS133DA	Internet/Web Development Level I	3
+ CIS15+	Programming (any CIS15+) (3) OR	
CIS15+++	Programming (any CIS15+++ module) (3) OR	
+ CIS16+	Programming (any CIS16+) (3) OR	
CIS16+++	Programming (any CIS16+++ module) (3)	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPM
Award Type:CCL
Effective First Year Term:2009 Spring
Overall G.P.A.: 2.50

Program Title: Information Technology Support
Initiating College:SM
Program Availability:College Specific
Total Credits: 21

Major Code:5163
Initiator: Frank Torres
Information Systems (12)

CIPS Code: 11.01.03
Instructional Council Receiving Proposal:Computer

(CCL in Information Technology Support continued)

PROPOSED: (Bold text=additions. Strike throughs = deletions)

Proposed Total Program Credits To: 21-22

CNT150	Cisco Networking Router Technologies (4) OR	
CNT150AA	Cisco Routing Protocols and Concepts (4)	4
+ ITS110	Information Security Fundamentals	4
+ MST152++	Microsoft Windows Server (any MST152++ module)	4

Free Electives:None

General Education:None

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: **OPD**
Award Type: **AAS**
Effective First Year Term: **2005 Fall**

Effective Last Year Term: **2009 Spring**
Overall G.P.A.: **2.00**

Program Title: **Programming and System Analysis**
Initiating College: **RSC**
Program Availability: Shared by: **CGCC (Mor), EMCC, GCC, GWCC, MCC, PC, PVCC, RSC (Mor), SCC**
Total Credits: **62-63**

Major Code: **3844**
Faculty Initiator: **Kerrie Specker**

CIPS Code: **11.05.01**
Instructional Council: **Computer Information Systems (12)**

Rationale: **Rio Salado College no longer wishes to participate in this program.**

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: OPD
Award Type: **CCL**
Effective First Year Term: **2005 Fall**

Effective Last Year Term: **2009 Spring**
Overall G.P.A.: **2.00**

Program Title: Programming and System Analysis
Initiating College: **RSC**
Program Availability: Shared by: **CGCC, EMCC, GCC, GWCC, MCC, PC, PVCC, RSC (Mor), SCC**
Total Credits: **25-26**

Major Code: **5048**
Faculty Initiator: **Kerrie Specker**

CIPS Code: **11.05.01**
Instructional Council: **Computer Information Systems (12)**

Rationale: **Rio Salado College no longer wishes to participate in this program.**

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPD
Award Type:AAS
Effective First Year Term:2008 Spring
Effective Last Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Family Life Education
Initiating College:SCC
Program Availability: Shared by: GCC, MCC, RSC, SCC
Total Credits:65-67

Major Code:3044
Initiator:Rosanne Dlugosz

CIPS Code:19.07.99
Instructional Council Receiving Proposal: Family Studies & Consumer Sciences (34)

Rationale: Very low enrollment at SCC in courses in the program indicates that the need for this specialty area is not adequate in the area served by Scottsdale Community College.

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPD
Award Type:AAS
Effective First Year Term:2008 Spring
Effective Last Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Business
Initiating College:SCC
Program Availability:College Specific
Total Credits:64-66

Major Code:3853
Faculty Initiator:Susan Peterson

CIPS Code: 52.02.01
Instructional Council: Business/Management (03)

Rationale:SCC will participate in the shared AAS in General Business and no longer has need of this College-Specific program.

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type:OPD
Award Type:CCL
Effective First Year Term:2008 Spring
Effective Last Year Term:2009 Fall
Overall G.P.A.:2.0

Program Title:Parent Education
Initiating College:SCC
Program Availability: Shared by: GCC, MCC, RSC, SCC
Total Credits:19

Major Code:5396
Initiator:Rosanne Dlugosz

CIPS Code:19.07.99
Instructional Council Receiving Proposal: Family Studies & Consumer Sciences (34)

Rationale: Very low enrollment at SCC in courses in the program indicates that the need for this specialty area is not adequate in the area served by Scottsdale Community College.

ATTACHMENT: NAP
NEW ACADEMIC PROGRAMS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 2/24/09

Proposal Development Type: NAP	Program Title: Electronic Music
Award Type: AC	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: Shared: GC, PC [Primary], MC, SC
Overall G.P.A.: 2.00	Total Credits: 40

Major Code: 6231	CIPS Code: 50.09.04
Initiator: Karl Schindler	Instructional Council: Music (41)

Description: The Academic Certificate (AC) in Electronic Music is intended for the student who would like to obtain acknowledgment for completion of electronic music courses, and is not designed to prepare students for employment. While the completion of the certificate does not lead to a particular degree, it does provide and enhance the development of musicianship for enjoyment and personal growth. This program provides the student with fundamental musical skills covering a variety of topics, including theory, performance, composition, and history. In addition, students receive a high level of technical training in creating electronic music. As students complete courses in the program, they will build a portfolio of original compositions that may be used to seek admittance to a bachelor's-level music program.

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: None

Program Prerequisites: Credits: 2-3
 MTC100 Fundamentals of Music (2) OR
 MTC101 Introduction to Music Theory (3) OR
 Permission of instructor 2-3

Required Courses: Credits: 40
 Students are required to complete a total of six (6) credits of MTC240.

+ MTC105	Music Theory I	3
MTC106	Aural Perception I	1
+ MTC155	Music Theory II	3
MTC156	Aural Perception II	1
+ MTC205	Music Theory III	3
MTC206	Aural Perception III	1
+ MTC255	Music Theory IV	3
MTC256	Aural Perception IV	1
MTC191	Electronic Music I	3
+ MTC192	Electronic Music II	3
+ MTC193	Computer-Based Sound Synthesis	3
+ MTC240	Composition (3)	6
+ MTC291	Electronic Music III	3
MUC195	Studio Music Recording I	3
+ MUC196	Studio Music Recording II (3) OR	
MUC197	Live Sound Reinforcement I (3)	3

Restricted Electives: None

Free Electives: None

General Education: None