

CONSENT AGENDA ACTION ITEM

Governing Board Agenda

Meeting Date: June 23, 2009

<u>Item Number</u>	<u>Item Title</u>	<u>Responsible Agents</u>
V.D.1	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 Relations _____</p> <p>College President _____</p>

GBA June 23, 2009 MCCC D Governing Board Action Items
Curriculum Summary

COURSE PROPOSALS:

Course Modifications to Year/Term End (Deletion).....page 12

GCC PED108
PC SLG215
RSC CSI202, CSI203, CSI204, CSI205, CSR136, CSR137, CSR138, CSR139, CSR201,
CSR202, CSR203, CSR204, CSR205, CSR206, CSR208, CSR234, CSR235

Course Modifications.....page 13

GCC CPD102AC, RDG071, RDG081
GWCC NCE223
MCC GBS270AC, MGT270AC, SWU215
PC LAS204, LAS229
PV BPC121AE, CIS121AE

New Courses.....page 19

CGCC EXS250
GCC PSY275
GWCC CNT175, EEG211, MEC204, MEC232, MEC234, MET119, MET224, MET254, MET284,
PFT101AD, PSG150, PSG160, PSG165, PSG170, PSG250, PSG260, PSG265, PSG275
MCC CIS244, CNS290AE, EXS263BB, MUE240, REL215, REL240, REL245, REL248, REL280,
REL294, REL295
PC ART119, ART120, ART219, ART220, ART221, BLT205, CAD256, CNS205, CRW172,
PHI251, TRS102, TRS103
RSC EDA220, EDA230, EDA240, EDA250, ELN104, ELN105, ELN106, ELN107, ELN112,
ELN113, ELN121, ELN123, LET224, PAR236
SCC ECE112, ENG095AA, ENG095AB
SM EDM210, EDM211, EDM212, EDM213, EDM214, EDM215, EDM216, EDM217

PROGRAM PROPOSALS:

New Occupational Programs (NOP).....page 35

GWCC CCL/5695 Polysomnographic Technology 35
PC CCL/5687 Comic and Sequential Art 36

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Curriculum Summary

PROGRAM PROPOSALS: CONTINUED

Occupational Program Modifications (OPM).....page 37

GCC	AAS/3567	Graphic Design	37
	CCL/5567	Graphic Design	41
	CCL/5571	Animation: Imaging and Design Foundation	42
	CCL/5112	Tractor-Trailer Driving	44
	CCL/5276	Advanced Emergency Medical Technology (Paramedic)	45
GWCC	AAS/3009	Heat and Frost Insulation	47
	CCL/5180	Heat and Frost Insulation	49
	AAS/3069	Mechanical Trades: Plumbing	50
	CCL/5536	Mechanical Trades: Plumbing	53
	AAS/3075	Mechanical Trades: Heating, Ventilating and Air Conditioning	55
	CCL/5543	Mechanical Trades: Heating, Ventilating and Air Conditioning	58
	AAS/3077	Mechanical Trades: Sheet Metal	60
	CCL/5545	Mechanical Trades: Sheet Metal	63
	AAS/3083	Heavy Equipment Operations	65
	CCL/5566	Heavy Equipment Operations	67
	AAS/3255	Manufacturing Productivity	69
	CCL/5441	Manufacturing Productivity: Quality Assurance	72
	AAS/3420	Bricklaying	73
	CCL/5391	Bricklaying	75
	AAS/3424	Carpentry	76
	CCL/5395	Carpentry	78
	AAS/3436	Ironworking	81
	CCL/5436	Ironworking	83
	AAS/3440	Construction Trades: Millwright	85
	CCL/5415	Millwright	87
	AAS/3444	Construction Trades: Painting	88
	CCL/5407	Painting	90
	AAS/3538	Construction Trades: Sheet Metal	91
	CCL/5575	Sheet Metal	93
	CCL/5595	Construction Management	94
	AAS/3816	Networking Technology: Cisco	95
	Shared by CGCC, EMCC, GCC, GWCC		
	CCL/5378	Electroneurodiagnostics	99
	CCL/5411	Roofing	101

Note: *Indicates Addition of Occupational Program from OPM process

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PROGRAM PROPOSALS: CONTINUED

PC	AAS/3011	Surveying Technology	102
	CCL/5203	Surveying Technology	104
	AAS/3308	Civil Engineering Technology	105
	CCL/5297	Civil Engineering Technology	108
	AAS/3384	Paralegal Studies	110
	CCL/5384	Paralegal Studies	113
	AAS/3500	Architectural Drafting	116
	CCL/5500	Architectural Drafting	119
	CCL/5650	Computer Aided Drafting	121
	AAS/3832	Building Safety and Construction Technology	122
	CCL/5432	Building Safety and Construction Technology	125
	CCL/5115	Construction Management	127
	AAS/3123*	Construction Management	129
PVCC	CCL/5159	Web Design	131
	Shared by: GCC, GWCC (Mor), PVCC, EMCC, PC		
RSC	AAS/3092	Workforce Development and Community Re-Entry	132
	CCL/5592	Workforce Development: Horticulture Level I	136
	CCL/5593	Workforce Development: Horticulture Level II	137
SCC	AAS/3029	Web Design	138
	CCL/5172	Web Design	140
	AAS/3031	Web Development	142
	CCL/5346	Web Development	144
	AAS/3235	Office Automation Systems	146
	CCL/5235	Office Automation Systems	148
	AAS/3564	Culinary Arts	149
	CCL/5363	Culinary Arts	151
	CCL/5083	Database Development	152
	CCL/5084	Software Development	153
CCL/5221	Word Processing	155	
CCL/5624	Personal Computer Applications	156	
CCL/5909	Computer Hardware and Network Support	158	

Note: *Indicates Addition of Occupational Program from OPM process

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PROGRAM PROPOSALS: CONTINUED

Occupational Program Deletions (OPD).....page 159

GCC	AAS/3061	Industrial Education	
	Shared by: GCC, MCC		159
	CCL/5537	Animation: Drawing for Animation	159
	CCL/5538	Animation: Advanced Imaging and Animation	159
GWCC	AAS/3058	Supply Chain and Operations Management	160
	AAS/3774	Aerospace Manufacturing Technology	160
	CCL/5058	Supply Chain and Operations Management	160
	CCL/5185	Home Improvement Retail Operations: Flooring	161
	CCL/5186	Home Improvement Retail Operations: Kitchen	161
	CCL/5187	Home Improvement Retail Operations: Millworks	161
	CCL/5319	Pharmacy Technology	162
	CCL/5761	Education Technology	162
SCC	CCL/5466	Journalism	163
	Shared by: MCC, GCC, SCC		

Occupational Program Deletions - Moratorium Programs (OPD-MOR).....page 164

EMCC	AAS/3740	International Business	166
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PVCC (Mor)		
	CCL/5742	International Business	178
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PC (Mor), PVCC, RSC (Mor)		
	CCL/5740	Import/Export Trade	178
	Shared by: EMCC (Mor), GWCC (Mor), MCC, PVCC (Mor), RSC (Mor)		
	CCL/5728	Quality Customer Service	178
	Shared by: EMCC (Mor), GCC (Mor), GWCC, RSC		
	CCL/5727	Quality Process Leadership	177
	Shared by: EMCC (Mor), GWCC, MCC, RSC		
	AAS/3838	Microsoft Applications Development	168
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC		
	CCL/5838	Microsoft Applications Development	180
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC		
	CCL/5067	Oracle Applications Developer	170
	Shared by: EMCC (Mor), GCC (Mor)		

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Curriculum Summary

PROGRAM PROPOSALS: CONTINUED

GCC	AAS/3501	Civil CAD Technology	166
	CCL/5651	CAD-Based Design Technology	177
	AAS/3223	Electronics Technology	165
	AAS/3225	Electronics Engineering Technology	165
	CCL/5937	Electronic Pre-Press	182
	CCL/5224	Electronics Manufacturing Technology	173
	AAS/3740	International Business	166
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PVCC (Mor)		
	CCL/5742	International Business	178
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PC (Mor), PVCC, RSC (Mor)		
	AAS/3833	Justice Agencies Support	167
	Shared by: GCC (Mor), MCC, PC (Mor)		
	CCL/5004	Justice Agencies Support Level I	168
	Shared by: GCC (Mor), MCC, PC (Mor)		
	CCL/5006	Justice Agencies Support Level II	168
	Shared by: GCC (Mor), MCC, PC (Mor)		
	AAS/3516	Manufacturing Design Technology	166
	AAS/3838	Microsoft Applications Development	168
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC		
	CCL/5030	AS/400 Applications Development	169
	CCL/5029	AS/400 Operations	169
	CCL/5373	Early Childhood Lead Teacher	174
	CCL/5474	Intermediate Emergency Medical Technology	176
	CCL/5839	Police Academy Preparation	181
	CCL/5798	Recruit Firefighters	180
	CCL/5838	Microsoft Applications Development	180
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC		
	CCL/5067	Oracle Applications Developer	170
	Shared by: EMCC (Mor), GCC (Mor)		
	CCL/5728	Quality Customer Service	178
	Shared by: EMCC (Mor), GCC (Mor), GWCC, RSC		
	CCL/5808	Total Quality Management	180

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PROGRAM PROPOSALS: CONTINUED

GWCC	AAS/3018	Emergency Management	164
	Shared by:	CGCC (Mor), GCC, GWCC (Mor), MCC, PVCC, RSC (Mor), SMCC	
	CCL/5304	Emergency Management	173
	Shared by:	CGCC (Mor), GCC, GWCC (Mor), MCC, PVCC, RSC (Mor), SMCC	
	AAS/3740	International Business	166
	Shared by:	EMCC (Mor), GCC (Mor), GWCC (Mor), PVCC (Mor)	
	CCL/5742	International Business	178
	Shared by:	EMCC (Mor), GCC (Mor), GWCC (Mor), PC (Mor), PVCC, RSC (Mor)	
	CCL/5740	Import/ Export Trade	178
	Shared by:	EMCC (Mor), GWCC (Mor), MCC, PVCC (Mor), RSC (Mor)	
	AAS/3013	Linux Networking Administration	164
	Shared by:	EMCC, GCC, GWCC (Mor), MCC	
	CCL/5219	Linux Associate	172
	Shared by:	EMCC, GCC, GWCC (Mor), MCC	
	CCL/5204	Linux Professional	172
	Shared by:	CGCC, EMCC, GCC, GWCC (Mor), MCC, PVCC	
	CCL/5225	Linux Networking Administration	173
	Shared by:	EMCC, GCC, GWCC (Mor), MCC	
	AAS/3838	Microsoft Applications Development	168
	Shared by:	EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC	
	CCL/5838	Microsoft Applications Development	180
	Shared by:	EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC	
	CCL/5473	Microsoft Desktop Support Technology	176
	Shared by:	EMCC, GCC, GWCC (Mor), MCC, PVCC, SCC	
	CCL/5852	Microsoft Systems Administration	181
	Shared by:	EMCC, GCC, GWCC (Mor), PC (Mor), PVCC, SCC	
	AAS/3017	Music Business	164
	Shared by:	CGCC, GCC, GWCC (Mor), MCC, PC, PVCC, SCC, SMCC	
	CCL/5258	Music Business	173
	Shared by:	CGCC, GCC, GWCC (Mor), MCC, PC, PVCC, SCC, SMCC	
	AAS/3844	Programming and System Analysis	168
	Shared by:	EMCC, GCC, GWCC (Mor), PC, PVCC, SCC	
	CCL/5048	Programming and System Analysis	170
	Shared by:	CGCC, EMCC, GCC, GWCC (Mor), MCC, PC, PVCC, SCC	
	AAS/3059	Strength and Conditioning Personal Trainer	164
	Shared by:	CGCC, EMCC, GCC, GWCC (Mor), MCC, PVCC, SCC, SMCC	
	CCL/5445	Strength and Conditioning Personal Trainer	175
	Shared by:	CGCC, EMCC, GCC, GWCC (Mor), MCC, PVCC, SCC, SMCC	
	AAS/3008	Teacher Assisting	164
	Shared by:	EMCC, GWCC (Mor)	
	CCL/5159	Web Design	172
	Shared by:	GCC, GWCC (Mor), PVCC	

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PROGRAM PROPOSALS: CONTINUED

MCC	AAS/3232	Electronics/Microprocesser Technology	165
	AAS/3488	Diesel/Heavy Equipment Technology	165
	CCL/5511	Diesel/Heavy Equipment Maintenance and Repair	176
	CCL/5507	Diesel/Heavy Equipment Specialist	176
	CCL/5503	Diesel/Heavy Equipment Trainee	176
	AAS/3833	Justice and Government Agency Administration	167
	Shared by: GCC (Mor), MCC, PC (Mor)		
	CCL/5004	Justice and Government Agency Administration:Level I	168
	Shared by: GCC (Mor), MCC, PC (Mor)		
	CCL/5006	Justice and Government Agency Administration: Level II	168
	Shared by: GCC (Mor), MCC, PC (Mor)		
	CCL/5697	Recreational Vehicle Technology	177
PC	AAS/3760	Adult Corrections	167
	CCL/5754	Correctional Program Officer Training	178
	CCL/5751	Correctional Service Officer Training	178
	CCL/5760	Corrections Supervision/Management	179
	CCL/5757	Parole Officer Training	179
	AAS/3033	General Business-Insurance	164
	CCL/5381	General Business-Insurance Level I	174
	CCL/5389	General Business-Insurance Level II	175
	AAS/3833	Justice and Government Agency Administration	167
	Shared by: GCC (Mor), MCC, PC (Mor)		
	CCL/5004	Justice and Government Agency Administration - Level I	168
	Shared by: Shared by: GCC (Mor), MCC, PC (Mor)		
	CCL/5006	Justice and Government Agency Administration - Level II	168
	Shared by: Shared by: GCC (Mor), MCC, PC (Mor)		
	AAS/3818	Recreational Resources and Facilities Management	167
	CCL/5777	Recreational Resources and Facilities Management: Equipment Maintenance and Repair	179
	CCL/5779	Recreational Resources and Facilities Management: Horticulture	179
	CCL/5781	Recreational Resources and Facilities Management: Pesticides	179
	CCL/5783	Recreational Resources and Facilities Management: Pro Shop Management	180
	CCL/5785	Recreational Resources and Facilities Management: Turf and Irrigation	180
	AAS/3772	Tribal Court Advocacy	167
	CCL/5792	Tribal Court Advocacy I	180
	CCL/5003	Tribal Court Advocacy II	168
	CCL/5430	Advanced Interior Design	175

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PROGRAM PROPOSALS: CONTINUED

PC continued:

	CCL/5931	Assisted Living: Directed Care Services	182
	CCL/5771	Assisted Living: Management	179
	CCL/5929	Assisted Living: Personal Care Services	182
	CCL/5108	Assisted Living: Personal Care Services for Certified	171
	CCL/5927	Assisted Living: Supervisory Care Services	182
	CCL/5489	Donor Phlebotomy	176
	CCL/5664	EKG/Telemetry Technician	173
	CCL/5330	Fiduciary Practices	174
	CCL/5382	Home Inspection: Basic Inspector	175
	CCL/5386	Home Inspection: Business Owner Operator Inspector	175
	CCL/5855	Medical Billing	181
	CCL/5128	Reading Specialist Endorsement Shared by: MCC, PC (Mor)	171
PVCC	AAS/3681	Environmental Health and Safety Technology	166
	CCL/5681	Environmental Health and Safety Technology	177
	AAS/3740	International Business	166
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PVCC (Mor)		
	CCL/5740	Import/Export Trade	178
	Shared by: EMCC (Mor), GWCC (Mor), MCC, PVCC (Mor), RSC (Mor)		
	AAS/3072	Middle Management	165
	AAS/3727	Organizational Leadership	165
	Shared by: CGCC, EMCC, GWCC, MCC, PVCC (Mor), RSC		
	CCL/5925	Safety, Health and Environmental Studies	182
RSC	AAS/3132	Accounting	165
	CCL/5130	Accounting	172
	AAS/3018	Emergency Management	164
	Shared by: CGCC (Mor), GCC, GWCC (Mor), MCC, PVCC, RSC (Mor), SMCC		
	CCL/5304	Emergency Management	173
	Shared by: CGCC (Mor), GCC, GWCC (Mor), MCC, PVCC, RSC (Mor), SMCC		
	AAS/3778	Microsoft Networking Technology	167
	Shared by: EMCC, GCC, GWCC, PC (Mor), PVCC, RSC (Mor), SCC		
	CCL/5841	Microsoft Product Specialist	181
	Shared by: CGCC, EMCC, GCC, GWCC, PC (Mor), PVCC, RSC (Mor), SCC		
	CCL/5843	Microsoft Systems Engineer	181
	Shared by: EMCC, GCC, GWCC, PC (Mor), PVCC, RSC (Mor), SCC		

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PROGRAM PROPOSALS: CONTINUED

RSC continued:

	CCL/5035	Credit Card: Customer Service	169
	CCL/5148	Credit Union Management I	172
	CCL/5103	Database Management	171
	CCL/5099	e-Commerce/Website Management	171
	CCL/5260	General Business	173
	CCL/5740	Import/Export Trade	178
	Shared by: EMCC (Mor), GWCC (Mor), MCC, PVCC (Mor), RSC (Mor)		
	CCL/5742	International Business	178
	Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PC (Mor), PVCC, RSC (Mor)		
	CCL/5074	Management and Supervision Level	170
	CCL/5091	Management and Supervision Level II	171
	CCL/5256	Manufacturing Technology	173
	CCL/5038	Novell Engineer	169
	CCL/5036	Office User Specialist Preparation Skills	169
	CCL/5735	Optical: Customer Service	178
	CCL/5335	Pharmacy Benefits Management: Customer Service	174
	CCL/5348	Pharmacy: Customer Service	174
	Shared by: RSC (Mor), SMC		
	CCL/5100	Project Management/Website Management	171
	CCL/5040	Solutions Developer	170
	CCL/5039	Systems Professional	170
	CCL/5046	Technology Helpdesk Support	170
	CCL/5970	Telecommunications: Customer Service	182
SCC	AAS/3671	Public Relations	166
	CCL/5672	Public Relations	177
	CCL/5863	Judicial Studies	181
	CCL/5387	Law Enforcement Supervision	175
	CCL/5372	Police Academy Preparation Level II	174
	CCL/5987	The Maricopa Institute for Arts and Entertainment	183
	CCL/5197	Community Health Advocate, Diabetes	172
	Shared by: MCC, SCC (Mor)		
	CCL/5023	Early Childhood Small Business Management	169
	AC/6221	Language and Literary Culture of the USA	168
	Shared by: CGCC, GCC, MCC, PVCC, RSC, SCC (Mor)		

CURRICULUM ACTIVITY: COURSES FOR June 23, 2009

Total Course Proposals Submitted (98 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)			1	3	3	2	2					11
Course Deletions				1			1	17				19
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		18	1	11		12	14	3	8		68
Total Courses College Columns	1	0	19	5	14	2	15	31	3	8	0	98
Overall New Courses Generated for MCCC	1	0	18	1	11	0	12	14	3	8	0	68
Overall Course Modifications Generated for MCCC	0	0	1	4	3	2	3	17	0	0	0	30

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

CURRICULUM ACTIVITY: PROGRAMS FOR June 23, 2009

Total Program Proposals Submitted (213, with 1 Program Addition(s))												
Proposal Type/Outcomes	CGCC	EMCC	GWCC	GCC	MCC	PVCC	PC	RSC	SCC	SMCC	Dist	Totals
Occupational Program Deletions (OPD)		8	29	26	9	7	33	27	9			148
New Occupational Program (NOP) (college specific)			1				1					2
NOP-Shared (*primary college)												0
Occupational Program Modification (OPM)			28	5		1	12	3	13			62
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)									1			1
New Academic Program (NAP) (college specific)												0
NAP-Shared (*primary college)												0
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	0	1	0	0	0	2	0	0	0	0	3
MCCC Modified Programs Generated		8	57	31	9	8	45	30	23	0	0	211

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
MCCCD GOVERNING BOARD DATE: 6/23/09

<u>X-REF</u>	<u>TYPE</u>	<u>COLLEGE</u>	<u>SUBJECT</u>	<u>TITLE</u>	<u>EFF.END OF</u>
	RSC		CSI202	Deposit Sales and Service Agent Training	2009 Summer I
	RSC		CSI203	Bank Card and Account Management	2009 Summer I
	RSC		CSI204	Computerized Systems and Banking Requests	2009 Summer I
	RSC		CSI205	Wire Transfer, Cash Advance, and Workflow	2009 Summer I
	RSC		CSR136	Pharmacy Benefit Member Service	2009 Summer I
	RSC		CSR137	Pharmacy Benefit Database Management	2009 Summer I
	RSC		CSR138	Pharmacy Benefit Service Provision	2009 Summer I
	RSC		CSR139	Pharmacy Benefit Operations	2009 Summer I
	RSC		CSR201	Insurance Operations	2009 Summer I
	RSC		CSR202	Insurance Representative Services	2009 Summer I
	RSC		CSR203	Insurance Representative Concerns	2009 Summer I
	RSC		CSR204	Insurance Representative Procedures	2009 Summer I
	RSC		CSR205	Automobile Insurance Provisions	2009 Summer I
	RSC		CSR206	Insurance Rate Determination	2009 Summer I
	RSC		CSR208	Automobile Policy Provision	2009 Summer I
	RSC		CSR234	Auto Insurance Loss Reports I	2009 Summer I
	RSC		CSR235	Auto Insurance Loss Reports II	2009 Summer I
	GCC		PED108	Survey of the Fitness Profession	1998 Fall
	PC		SLG215	Sign to Voice	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: 6/23/09

ACT CREDITS PERIODS

PRESENT:

BPC121AE	Windows Operating System: Level I	L+L	1.0	2.0
X CIS121AE				

Specific topics include booting and shutting down the computer, navigating the desktop, start button features, taskbar status, and receiving on-line help support. Exploring and managing folders and files, running programs, and learning about Wordpad and Paint application programs.

Prerequisites: None.

(Change in: Description, Competencies, Outline.)

BPC121AE	Windows Operating System: Level I	L+L	1.0	2.0
X CIS121AE				

Specific topics include Windows basics, navigating and customizing the desktop, maintaining hardware and software, improving performance, configurations, securing your computer, taskbar, organizing, searching and managing folders and files, installing and uninstalling applications, Internet Explorer fine tuning, security, and searching, including advanced search techniques, keyboard shortcuts, and current topics.

Prerequisites: None.

Type: 0 College: PVCC Effective: 2009 Fall

PRESENT:

CIS121AE	Windows Operating System: Level I	L+L	1.0	2.0
X BPC121AE				

Specific topics include booting and shutting down the computer, navigating the desktop, start button features, taskbar status, and receiving on-line help support. Exploring and managing folders and files, running programs, and learning about Wordpad and Paint application programs.

Prerequisites: None.

(Change in: Description, Competencies, Outline.)

CIS121AE	Windows Operating System: Level I	L+L	1.0	2.0
X BPC121AE				

Specific topics include Windows basics, navigating and customizing the desktop, maintaining hardware and software, improving performance, configurations, securing your computer, taskbar, organizing, searching and managing folders and files, installing and uninstalling applications, Internet Explorer fine tuning, security, and searching, including advanced search techniques, keyboard shortcuts, and current topics.

Type: 0 College: PVCC Effective: 2009 Fall

ATTACHMENT: CM
COURSE MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

ACT CREDITS PERIODS

PRESENT:

CPD102AC	Creative Job Hunting	LEC	2.0	2.0
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Designed to assist students to gain confidence necessary to obtain or improve employment. Emphasis on job search techniques and strategies, resume writing, interviewing skills and improving employment opportunities.

Prerequisites: None.

(Change in: Description, Course Notes, Repeats, Competencies, Outline.)

CPD102AC	Creative Job Hunting	LEC	2.0	2.0
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Assists students in gaining skills and confidence necessary to compete in the job market. Emphasis on job search techniques and strategies, resume and cover letter writing, interviewing skills and professional etiquette.

Prerequisites: None.

Course Notes: CPD102AC may be repeated for credit.

Type: A	College: GCC	Effective: 2009 Fall
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PRESENT:

GBS270AC	Business Internship	LAB	3.0	3.0
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General business work experience in a business or industry. Eighty hours of designated work per credit totaling 240 hours per semester. Maximum of 3 credits allowed.

Prerequisites: Permission of Department.

(Change in: Description, Course Notes, Repeats.)

GBS270AC	Business Internship	LAB	3.0	3.0
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General business work experience in a business or industry. Eighty hours of designated work per credit.

Prerequisites: Permission of Department or Division.

Course Notes: GBS270AC may be repeated for a total of six (6) credits.

Type: O	College: MCC	Effective: 2009 Summer I
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ATTACHMENT: CM
COURSE MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

ACT CREDITS PERIODS

PRESENT:

MGT270AC	Management Internship	L+L	3.0	3.0
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Management work experience in a business or industry. 80 hours of designated work per credit. Maximum of 3 credits allowed.
 Prerequisites: Departmental approval.

(Change in: Description, Course Notes, Repeats.)

MGT270AC	Management Internship	L+L	3.0	3.0
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Management work experience in a business or industry. 80 hours of designated work per credit.
 Prerequisites: Permission of Department or Division.
 Course Notes: MGT270AC may be repeated for a total of six (6) credits.

Type: O	College: MCC	Effective: 2009 Summer I
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PRESENT:

NCE223	LPN-IV Therapy and Medication Skills	LEC	3.0	3.0
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Terminology and anatomy related to intravenous therapy. Drug response factors, dosage, calculations, intravenous site dressing change, intravenous administration equipment, and initiating intravenous therapy. Documentation and procedures for laboratory check lists. Meets state nursing board requirements for initiating intravenous therapy and administrating intravenous medications.
 Prerequisites: Current license as Practical Nurse or permission of instructor.

(Change in: Activity Type From:Lec To:Lec Lab, Credits From:3.0 To:2.5 0.5, Periods From:3.0 To:2.5 1.5 Load From:3.0 To:2.5 1.2, Competencies.)

NCE223	LPN-IV Therapy and Medication Skills	LEC	2.5	2.5
		LAB	0.5	1.5

Terminology and anatomy related to intravenous therapy. Drug response factors, dosage, calculations, intravenous site dressing change, intravenous administration equipment, and initiating intravenous therapy. Documentation and procedures for laboratory check lists. Meets state nursing board requirements for initiating intravenous therapy and administrating intravenous medications.
 Prerequisites: Current license as Practical Nurse or permission of Instructor.

Type: O	College: GWCC	Effective: 2009 Fall
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ATTACHMENT: CM
COURSE MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

ACT CREDITS PERIODS

PRESENT:

RDG071	Basic Reading	LEC	3.0	3.0
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Provide opportunities for practice and application of basic reading skills. Word recognition skills including phonic analysis, structural analysis, use of context, and use of dictionary, reinforced through practical application. Development of vocabulary required for success in content area courses. Emphasis on literal comprehension and figurative interpretation using materials selected to build background knowledge.

Prerequisites: Reading placement test score, or Grade of C or better in RDG040, or permission of instructor.

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

RDG071	Basic Reading	LEC	3.0	3.0
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Description: Provide opportunities for practice and application of basic reading skills. Includes phonic analysis, word recognition, structural analysis, use of context clues, and use of dictionary, reinforced through practical application. Development of vocabulary required for success in content area courses. Emphasis on literal comprehension and development of inferential interpretation.

Prerequisites: Appropriate reading placement test score, or grade of "C" or better in RDG040.

Type: A	College: GCC	Effective: 2010 Spring
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PRESENT:

RDG081	Reading Improvement	LEC	3.0	3.0
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Designed to improve basic reading skills. Includes word recognition, prediction of contents of reading selections, and development of basic vocabulary. Emphasis on identifying main ideas and related details. Reviews following directions and the understanding of graphic materials.

Prerequisites: Placement test scores, or permission of Instructor.

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

RDG081	Reading Improvement	LEC	3.0	3.0
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Designed to improve basic reading skills. Includes word recognition, interdisciplinary vocabulary development, recognizing patterns of organization, interpreting inference. Reviews interpreting graphic materials. Emphasis on identifying main ideas and related details.

Prerequisites: Appropriate reading placement test score, or grade of "C" or better in RDG071.

Type: A	College: GCC	Effective: 2010 Spring
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ATTACHMENT: CM
COURSE MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
<u>PRESENT:</u>				
SWU215	Working with the Chemically Dependent Family	LEC	3.0	3.0
Family counseling techniques for working with the chemically dependent family. Assessment and development of treatment plans. Prerequisites: SWU292 or permission of program director.				
(Change in: Title, Description, Prerequisites, Competencies, Outline.)				
SWU215	Counseling Addictions Among Diverse Families	LEC	3.0	3.0
Counseling techniques for working with the diverse addicted family. Assessment and development of treatment plans that reflect diversity of culture, race, ethnicity, sexual orientation, community and family systems. Prerequisites: BHS/SWU130 or SWU292 or permission of Instructor.				
Type: 0	College: MCC	Effective: 2010 Spring		

**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
ART119	Penciling for Comic and Sequential Art	L+L	3.0	3.0

Development of observational skills as they apply to sequential art. Emphasis on techniques that showcase how characters interact with their environment and manipulate props and cartooning anatomy. Includes techniques on composing page layouts, adapting scripts and reference gathering.
Prerequisites: None.

Type: A College: PC Effective: 2009 Fall

ART120	Inking for Comic and Sequential Art	L+L	3.0	3.0
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Development of inking materials and techniques used in sequential art. Emphasis on the types of tools used in the industry and the various means of employing them. Understanding the duties of the inker and the process of computer finishing.
Prerequisites: None.

Type: A College: PC Effective: 2009 Fall

ART219	Coloring, Toning and Lettering for Comic and Sequential Art	L+L	3.0	3.0
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Understanding of the digital rules and programs used in coloring, toning and lettering comics, and the problems presented therein within the sequential narrative. Emphasis on rules and guidelines within the industry, and digital coloring and lettering.
Prerequisites: None.

Type: A College: PC Effective: 2009 Fall

ART220	Publishing for the Comic Industry	Lec	3.0	3.0
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Understanding of the comics industry. Includes researching, marketing, packaging, and distributing comics. Emphasis on selling and submitting to comics' publishers and understanding contracts and copyrights involved in the process of publishing comics.
Prerequisites: None.

Type: A College: PC Effective: 2009 Fall

ART221	Comics Creation	L+L	3.0	3.0
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Development of a complete sequential comic, using all comics skills from beginning to end. Process includes scripting, penciling, inking, coloring or toning, lettering, and printing for publication.
Prerequisites: None.

Type: A College: PC Effective: 2009 Fall

**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
BLT205	Sustainable Construction	Lec	3.0	3.0
X CNS205				

Fundamentals of major components of sustainable design and construction, including energy, health care facilities, cultural and natural resources, and other environmental and economic issues of sustainable built environments. Importance of a collaborative team effort with owner, developers, architects, engineers, and constructors will be integrated into the course. Issues impacting schedule and budgets of sustainable construction projects will be analyzed.

Prerequisites: (BLT200 or CNS200) or permission of Department or Division.

Course Notes: BLT/CNS205 prepares students for Leadership in Energy and Environmental Design (LEED) Certification Exam.

Type: O College: PC Effective: 2009 Fall

CAD256	CAD Customization and Management	L+L	3.0	6.0
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Emphasis on developing customized user interfaces and basic programming skills. Installation and configuration of software processes. File management techniques; file archival, batch plotting, file conversion, and CAD standards.

Prerequisites: CAD215 or DFT254AA or permission of Department or Division.

Type: O College: PC Effective: 2009 Fall

CIS244	Testing Software Tools	L+L	3.0	4.0
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Overview and implementation of GUI test automation using IBM Rational Functional Tester. Hands-on application using tools to test automation code and effectively use test software.

Prerequisites: CIS159, or CIS162AB, or CIS162AD, or CIS163AA, or permission of Instructor.

Type: O College: MCC Effective: 2009 Fall

CNS205	Sustainable Construction	Lec	3.0	3.0
X BLT205				

Fundamentals of major components of sustainable design and construction, including energy, health care facilities, cultural and natural resources, and other environmental and economic issues of sustainable built environments. Importance of a collaborative team effort with owner, developers, architects, engineers, and constructors will be integrated into the course. Issues impacting schedule and budgets of sustainable construction projects will be analyzed.

Prerequisites: (BLT200 or CNS200) or permission of Department or Division.

Course Notes: BLT/CNS205 prepares students for Leadership in Energy and Environmental Design (LEED) Certification Exam.

Type: O College: PC Effective: 2009 Fall

ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
CNS290AE	Construction Internship	Lab	5.0	25.0

Construction internship office/field experience with private / public agencies or citizen volunteer groups.

Prerequisites: Permission of Department or Division.

Course Notes: CNS290AE students must complete 80 hours of internship per credit for a total of 400 hours. May not repeat specific assignment for more than five (5) credit hours.

Type: O College: MCC Effective: 2009 Fall

CNT175	Cisco Certified Network Associate Security	L+L	4.0	6.0
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Associate-level knowledge and skills required to secure Cisco networks. Development of a security infrastructure, identification of threats and vulnerabilities to networks. Mitigation of security threats. Core security technologies. Installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices. Competency in the technologies that Cisco uses in its security structure. Prerequisites: CNT170 or CNT170AA or Certified Cisco Networking Associate (CCNA) certification or permission of Instructor.

Type: O College: GWCC Effective: 2009 Fall

CRW172	Introduction to Comic Book Writing	Lec	3.0	3.0
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Introduction to elements and techniques of comic book writing in its specific form; teaches terminology and concepts needed for the successful participation in writing workshops; focuses on proposal outline, planning, structure facilitates writing practice (including character study) and evaluation; offers individual suggestions in the student's development in this genre.

Prerequisites: None.

Type: A College: PC Effective: 2009 Fall

ECE112	General Principles of Nanotechnology	Lec	3.0	3.0
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Designed to provide students with a strong fundamental understanding of the scientific principles, processing, and applications of nanotechnology. Includes the concepts of chemical bonding, quantum mechanics, and microstructure applied to various nanomaterials and their use in electronic devices, composites, computing, and various other biological, medical, energy-related, and current consumer applications. Introduces analytical techniques used in nanotechnology, as well as possible societal applications.

Prerequisites: A grade of "C" or better in (MAT090, or MAT091, or MAT092 or MAT102 or equivalent) and CHM130 or equivalent.

Type: A College: SCC Effective: 2010 Spring

**ATTACHMENT: NC
 NEW COURSES: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
EDA220	Introduction to the Adult Learner	Lec	3.0	3.0

Provides an introduction to the field of adult education. Study of the adult as a learner, teaching-learning theories for adults, models and procedures for planning, designing, managing, and evaluating adult learning activities, and theories of motivation. Intended for practitioners who provide instruction to adults in a wide variety of workplace, community and lifelong learning arenas. Prerequisites: None.

Type: A College: RSC Effective: 2009 Summer II

EDA230	Curriculum Development in Adult Education	Lec	3.0	3.0
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Study of the principles and techniques for development of curricula for adult education services and programs. Prerequisites: EDA220 or permission of Department or Division.

Type: A College: RSC Effective: 2009 Summer II

EDA240	Teaching Methods for Adult Learning	Lec	3.0	3.0
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Study of teaching strategies responsive to learning preferences of the adult learner. Prerequisites: EDA220 and EDA230 or permission of Department or Division.

Type: A College: RSC Effective: 2009 Summer II

EDA250	Mentoring the Adult Learner	Lec	3.0	3.0
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Practice of mentoring as a process to provide effective on-the-job support and guidance to foster personal and professional growth of adult learners. Analyze the role of a mentor and practice how to build trust, clarify communication, and provide supportive feedback during collaborative planning, observation, and reflection activities. Prerequisites: None.

Type: A College: RSC Effective: 2009 Summer II

ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
EDM210	Montessori 9-12 Philosophy/Management/Language Arts	Lec	4.0	4.0

Instruction in Montessori upper elementary Education Philosophy, Classroom Management, and Language Arts curricula. Philosophy covers the Montessori Method of education and principles of child development with emphasis on the 9-12 aged child, and its comparison with traditional education theories; Management addresses the practical issues of directing a classroom and providing for student needs; and Language Arts covers the structure, content, and progression of the language and grammar lessons.

Prerequisites: Bachelor's degree from a regionally accredited United States college/university, CFS/ECH176, Montessori Certification for ages 2.5-6 or ECH100, completion of Montessori Certification coursework for ages 6-9, and permission of the Montessori Elementary Program Coordinator. Corequisite: EDM211

Type: A College: SM Effective: 2010 Summer I

EDM211	Montessori 9-12 Mathematics	Lec	3.0	3.0
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Instruction in the Montessori upper elementary Mathematics curriculum with focus on the development of the mathematical mind of the 9-12 aged student. Covers the structure, content, and progression of the mathematics lessons.

Prerequisites: bachelor's degree from a regionally accredited United States college/university, and CFS/ECH176, and Montessori Certification for ages 2.5-6 or ECH100, and completion of Montessori certification coursework for ages 6-9, and permission of the Montessori Elementary Program Coordinator. Corequisite: EDM210

Type: A College: SM Effective: 2010 Summer I

EDM212	Montessori 9-12 History/Geography/Physical Sciences	Lec	4.0	4.0
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Instruction in Montessori upper elementary History, Geography, and Physical Science curricula. Covers the purpose, structure, content, progression, and integration of the lessons in these subject areas.

Prerequisites: EDM210 and EDM211, and permission of the Montessori Elementary Program Coordinator. Corequisite: EDM213

Type: A College: SM Effective: 2010 Summer II

EDM213	Montessori 9-12 Geometry/Life Sciences	Lec	4.0	4.0
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Instruction in Montessori upper elementary Geometry, Measurement, and Life Sciences curricula. Covers the structure, content, and progression of the lessons in these subject areas, and their integration with other subject areas.

Prerequisites: EDM210 and EDM211, and permission of the Montessori Elementary Program Coordinator. Corequisite: EDM212.

Type: A College: SM Effective: 2010 Summer II

ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
EDM214	Montessori 9-12 Practicum A Field	Lab	4.0	4.0
<p>First semester of practicum requirement, focusing on the development and implementation of core curricula, teaching expertise, classroom management skills and professionalism.</p> <p>Prerequisites: EDM212 and EDM213, and permission of the Montessori Elementary Program Coordinator. Corequisite: EDM215</p> <p>Course Notes: EDM214 requires a Practicum with a minimum of 480 contact hours.</p>				
Type: A	College: SM	Effective: 2010 Fall		
<hr/>				
EDM215	Montessori 9-12 Curriculum Development and Design	Lec	3.0	3.0
<p>Development of upper level curricula with focus on the creation and implementation of auxiliary programs for the 9-12 aged student. Covers Practical Life, Visual Arts & Crafts, Music, Movement & Physical Education, and Computers. Also covers elements of curriculum design including the criteria for choosing, creating, and adapting teaching materials for all curricula areas of a Montessori program.</p> <p>Prerequisites: EDM212 and EDM213, and permission of the Montessori Elementary Program Coordinator. Corequisite: EDM214.</p>				
Type: A	College: SM	Effective: 2010 Fall		
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EDM216	Montessori 9-12 Practicum B Field	Lab	4.0	4.0
<p>Focus on the development and implementation of curricula, teaching expertise, classroom management skills, and professionalism.</p> <p>Prerequisites: EDM214 and EDM215, and permission of the Montessori Elementary Program Coordinator.</p> <p>Course Notes: EDM216 requires a Practicum with a minimum of 600 contact hours.</p>				
Type: A	College: SM	Effective: 2011 Spring		
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EDM217	Leadership and Administration	Lec	1.0	1.0
<p>Provides an overview of leadership responsibilities and opportunities in Montessori and general education communities. Addresses issues related to administration of a school, and professional presentation of educational issues.</p> <p>Prerequisites: EDM216, and permission of the Montessori Elementary Program Coordinator.</p>				
Type: A	College: SM	Effective: 2011 Summer I		
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**ATTACHMENT: NC
 NEW COURSES: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
EEG211	Advanced EEG Skills-Clinical Lab	Lab	3.0	18.0

Clinical application of Electroneurodiagnostic (EEG) skills and knowledge acquired during didactic courses and Intermediate EEG Skills Clinical Lab. Full supervision of tests performed with progression to independent testing.
 Prerequisites: Admission to the Electroneurodiagnostics Program.

Type: O College: GWCC Effective: 2009 Fall

ELN104	Web 2.0 in eLearning	Lec	3.0	3.0
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Procedures for using Web 2.0 in eLearning course design. Includes Web 2.0 research and learning design as well as media selection. Also covers use and challenges of various learner tools in addition to issues concerning learners, teachers, and organizations.
 Prerequisites: None.

Type: O College: RSC Effective: 2009 Fall

ELN105	Classroom Management in K-12 eLearning	Lec	3.0	3.0
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Procedures for management of the eLearning classroom. Emphasis on creating a supportive and engaging active learning environment for the distance learner. Covers characteristics of the distance learning student as well as procedures for creating a collaborative, integrated, and supportive learning environment.
 Prerequisites: None.

Type: O College: RSC Effective: 2009 Fall

ELN106	Discipline and Behavior in K-12 eLearning	Lec	3.0	3.0
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Overview of discipline and behavior issues in the K-12 eLearning environment. Includes classroom discipline theories and approaches to discipline. Also covers formalization of a personal system of discipline.
 Prerequisites: None.

Type: O College: RSC Effective: 2009 Fall

ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
ELN107	Parent Communication and Involvement in K-12 eLearning	Lec	3.0	3.0

Procedures for involving parents in K-12 eLearning. Includes law and public policy relating to compliance, student advocacy, and parental rights. Also covers parent-teacher communication issues as well as online education family involvement models.

Prerequisites: None.

Type: 0 College: RSC Effective: 2009 Fall

ELN112	Building and Facilitating eLearning for 9-12 Learners	Lec	3.0	3.0
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Procedures for building and facilitating eLearning for 9-12 students. Includes course design principles as well as copyright and intellectual property issues. Also covers student activities facilitation, assessment, and online classroom management concerns.

Prerequisites: None.

Type: 0 College: RSC Effective: 2009 Fall

ELN113	Building and Facilitating eLearning for K-8	Lec	3.0	3.0
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Procedures for building and facilitating eLearning for K-8 students. Includes course design principles as well as copyright and intellectual property issues. Also covers student activities facilitation, assessment, and online classroom management concerns. K-8 learner special considerations also included.

Prerequisites: None.

Type: 0 College: RSC Effective: 2009 Fall

ELN121	Evaluating K-12 eLearning	Lec	3.0	3.0
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Procedures for evaluating K-12 eLearning. Includes procedures for creating and integrating various types of student and course evaluation into the eLearning process.

Prerequisites: None.

Type: 0 College: RSC Effective: 2009 Fall

ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
ELN123	Assessment of Online Learning	Lec	3.0	3.0
<p>Assessment of learning in an online learning environment. Covers learning outcome categories, validity, and reliability. Includes procedures for assessment interpretation, usage, creation, and management. Prerequisites: None.</p>				
Type: O	College: RSC	Effective: 2009 Fall		
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ENG095AA	Tutored Developmental Writing: Generating and Drafting	L+L	1.0	1.0
<p>Structured tutorial assistance in writing skills to help students achieve success in a developmental writing course in which they are concurrently enrolled. Emphasis on generative writing skills. Prerequisites: None. Corequisites: ENG081 or ENG091. Course Notes: ENG095AA may be repeated for credit.</p>				
Type: A	College: SCC	Effective: 2010 Spring		
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ENG095AB	Tutored Developmental Writing: Revising and Editing	L+L	1.0	1.0
<p>Structured tutorial assistance in writing skills to help students achieve success in a developmental writing course in which they are concurrently enrolled. Emphasis on revising and editing skills. Prerequisites: None. Corequisites: ENG081 or ENG091. Course Notes: ENG095AB may be repeated for credit.</p>				
Type: A	College: SCC	Effective: 2010 Spring		
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EXS250	Applied Kinesiology	Lec Lab	3.0 1.0	4.0 2.0
<p>Anatomical and physiological fundamentals and applications of human movement. Emphasizes the relationship between anatomical structure and function of the musculoskeletal system. Examines neuromuscular aspects of human motion and fundamental stabilization and movement of the extremities and spine. Analyzes kinesiological aspects of functional movement in the human body, and identifies normal and abnormal human movement patterns. Prerequisites: (BIO160 or BIO201) and EXS125, and (EXS130 or EXS212SC).</p>				
Type: A	College: CGCC	Effective: 2010 Spring		
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**ATTACHMENT: NC
 NEW COURSES: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
EXS263BB	Officiating Basketball	L+L	3.0	4.0

Overview of responsibilities and legal rights of the basketball official, philosophy and psychological aspects of basketball officiating, mechanics and practical situations in basketball officiating, conditioning and nutrition for basketball officials.
 Prerequisites: None.

Type: A College: MCC Effective: 2009 Fall

LET224	Crime Scene Investigations	Lec	4.0	4.0
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Techniques for conducting a crime scene investigation. Includes crime scene documentation and artist sketching as well as the identification, preservation and collection of evidence. Interviews and interrogations, information sources, and report preparation also covered.
 Prerequisites: None.

Type: O College: RSC Effective: 2009 Summer II

MEC204	Advanced Construction Pipe Trades II	Lec	5.0	5.0
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Piping systems, hangers and supports, thermal expansion, insulation. Residential and commercial plumb drawings. Rigging equipment, load, and weight. Assembly and fabrication. Vessel trim, springs and supports. Valves, materials, fixtures. Aboveground pipe, pipe sleeves, and floor penetrations.
 Prerequisites: Registered apprentice status or permission of the Apprenticeship Coordinator.

Type: O College: GWCC Effective: 2009 Fall

MEC232	Advanced Construction Pipe Trades III	Lec	5.0	5.0
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Advanced pipe fabrication and layout. Calculations of offsets. Tank coils, ordinate lines, cutback lines. Tables, formulas, and resource materials. Mitered turns, lateral dimensions. True Wye, Dummy Legs and Trunions. Work planning, material needs, and inspections.
 Prerequisites: Registered apprentice status or permission of the Apprenticeship Coordinator.

Type: O College: GWCC Effective: 2009 Fall

**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
MEC234	Advanced Construction Pipe Trades IV	Lec	5.0	5.0

Pressure steam systems. Steam trap types, selection, placement, installation, maintenance, troubleshooting. Strainers. In-line specialty equipment. Specialty piping equipment. Hot tap types, fittings, installation, and machines. Valves and components. Thermal expansion and stress relief.

Prerequisites: Registered apprentice status or permission of the Apprenticeship Coordinator.

Type: 0 College: GWCC Effective: 2009 Fall

MET119	Workplace Quality Systems	L+L	3.0	3.0
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History of quality systems and procedures. Benefits of ISO 9000 procedures. The twenty elements of ISO 9000. Components and requirements of the International Organization for Standardization (ISO) 9000 quality and periodic audits.

Prerequisites: None.

Type: 0 College: GWCC Effective: 2009 Fall

MET224	Applied Statistical Process Control Methods	L+L	3.0	4.0
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Identification of quality characteristics derived from variable and attribute data. Usage of statistical rules for interpretation of control charts. Analysis and recommendation of appropriate actions on factors affecting process variation.

Prerequisites: MET119.

Type: 0 College: GWCC Effective: 2009 Fall

MET254	Lean and Six Sigma Applied Concepts	L+L	3.0	3.0
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Lean manufacturing and Six Sigma methodologies and application to an organization. Identification of waste and application of cost to poor quality process within an organization. Quality System tools and implementation. Organizational buy-in.

Prerequisites: MET119 or permission of Program Director.

Type: 0 College: GWCC Effective: 2009 Fall

MET284	Advanced Quality Process Methods	L+L	3	4
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High-level quality improvement process applied to manufacturing. Specific emphasis on experimental methods focused on waste reduction and general quality and process improvement. Understanding key process variables and decision-making methods based on established procedures. Applying statistical methods to process improvement.

Prerequisites: MET119, MET224, and MET254.

Type: 0 College: GWCC Effective: 2009 Fall

**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
MUE240	Introduction to Choral Methods	L+L	2.0	3.0

Overview of techniques, methods, materials, style characteristics, and repertoire used in directing choral music at the secondary level including simulated teaching, conducting, and the demonstration of vocal and choral performance practices.

Prerequisites: None.

Type: A College: MCC Effective: 2009 Fall

PAR236	Estate Law for the Paralegal	Lec	3.0	3.0
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Paralegal responsibilities in the area of estate law. Includes estate planning and administration. Covers procedures for preparing wills and trusts in addition to handling probate issues.

Prerequisites: PAR114.

Type: O College: RSC Effective: 2009 Fall

PFT101AD	Trade Calculations	Lec	2.0	2.0
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Trade calculations using whole numbers, decimals, fractions, percentages, discounts, slope, grade, volume, ratios, proportions, power and roots. Standard and metric methods of calculations. Blueprint dimensions. Trade specific calculations.

Prerequisites: Registered apprentice status or permission of the Apprenticeship Coordinator.

Type: O College: GWCC Effective: 2009 Fall

PHI251	Philosophy of Sport	Lec	3.0	3.0
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General consideration of sport in its philosophical dimensions. Possible topics include the Zen of sport, strategy and competition, sport, practice, and play, and cheating versus fair play.

Prerequisites: None.

Type: A College: PC Effective: 2009 Fall

PSG150	Introduction to Sleep Medicine	Lec	3	3
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Introduction to the fundamental concepts of polysomnography, sleep technology and sleep medicine. Emphasis on nomenclature, technical and medical roles, normal sleep, sleep disorders, and professional organizations and resources.

Prerequisites: Admission into the Polysomnography Technology program.

Type: O College: GWCC Effective: 2009 Fall

ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

			<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
PSG160	Polysomnographic Procedures	Lec	2.0	2.0	
		Lab	1.0	3.0	

Practical application of clinical procedures germane to the performance of polysomnography. Emphasis on patient assessment and communications, pre-test preparations, patient hook-up, instrument calibration and operation, test termination, cleanup and troubleshooting.

Prerequisites: Admission into the Polysomnography Technology program.

Type: 0 College: GWCC Effective: 2009 Fall

PSG165	Clinical Polysomnography I	Lab	3.0	15.0	
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Introduction to a sleep disorders center, observation of a center conducting polysomnography, and participation in performance of associated procedures. Emphasis on patient preparation, testing protocol, instrument calibration and operation, documentation, and patient interactions.

Prerequisites: Admission into the Polysomnography Technology program.

Type: 0 College: GWCC Effective: 2009 Fall

PSG170	Sleep Therapeutics	Lec	2.0	2.0	
		Lab	1.0	3.0	

Review of sleep therapies to include medical treatment of insomnia, hypersomnia, Restless Legs Syndrome, Periodic Limb Movement Disorder, Rapid Eye Movement Sleep Behavior Disorder, Parasomnias, the use of Positive Airway Pressure Therapy and/or Oxygen Therapy to treat sleep-disordered breathing.

Prerequisites: Admission into the Polysomnography Technology program.

Type: 0 College: GWCC Effective: 2009 Fall

PSG250	Record Scoring	Lec	2.0	2.0	
		Lab	1.0	3.0	

Polysomnographic Record Scoring including Visual, Arousal, Cardiac, Movement, and Respiratory scoring rules outlined by the American Academy of Sleep Medicine. Polysomnogram report generation and calculations, Technical and Digital Specifications, Multiple Sleep Latency Test/Maintenance of Wakefulness Test scoring and reporting, and Archive and Data Storage, Abnormal Polysomnographic Record events, and Artifact recognition.

Prerequisites: Admission into the Polysomnography Technology program.

Type: 0 College: GWCC Effective: 2009 Fall

**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
PSG260	Special Topics in Polysomnography	Lec	2.0	2.0
Specialized techniques, equipment and procedures used in polysomnography. Emphasis on infant, pediatric and geriatric populations, disabled and emotionally/mentally challenged, Polysomnograms with legal implications, research, and less commonly performed procedures.				
Prerequisites: Admission into the Polysomnography Technology program.				
Type: O	College: GWCC	Effective: 2009 Fall		
PSG265	Clinical Polysomnography II	Lab	2.0	10.0
Participation in clinical polysomnography testing. Emphasis on patient preparation, troubleshooting, therapeutics, proper documentation, record review, scoring and report generation.				
Prerequisites: Admission into the Polysomnography Technology program.				
Type: O	College: GWCC	Effective: 2009 Fall		
PSG275	Clinical Polysomnography III	Lab	3.0	15.0
Clinical polysomnography testing. Emphasis on independent function and decision making, time management, record review, scoring and report preparation.				
Prerequisites: Admission into the Polysomnography Technology program.				
Type: O	College: GWCC	Effective: 2009 Fall		
PSY275	Biopsychology	L+L	4.0	5.0
Biological foundations of sensation, perception, motivation, emotion, cognition and psychopathology. Designed for students in the life sciences.				
Prerequisites: PSY101 with a grade of "C" or better or permission of Instructor.				
Type: A	College: GCC	Effective: 2010 Spring		
REL215	Introduction to the Qur'an	Lec	3.0	3.0
Historical context, development, canonization, historical transmission, translation and Interpretation of the Qur'an.				
Prerequisites: None.				
Type: A	College: MCC	Effective: 2009 Fall		

**ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09**

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
REL240	Religion and Science	Lec	3.0	3.0
<p>Consideration of the relationship of religion and science from the beginnings of the historical period to the present. Includes consideration of various contemporary religious perspectives on current scientific issues. Prerequisites: None.</p>				
Type: A	College: MCC	Effective: 2009 Fall		
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REL245	Eco Religion	Lec	3.0	3.0
<p>Consideration of the perspectives of various religious traditions toward the origins, destiny and value of the earth and its non-human life. Includes exploration of contemporary issues in the interaction of humans with the environment. Prerequisites: None.</p>				
Type: A	College: MCC	Effective: 2009 Fall		
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REL248	Religion, Peace and Violence	Lec	3.0	3.0
<p>Exploration of the understandings and attitudes toward peace, war and violence in religious traditions from the pre-historical to the present. Includes consideration of a variety of religious scripture traditions, theological and philosophical reflections, and religious symbolism. Prerequisites: None.</p>				
Type: A	College: MCC	Effective: 2009 Fall		
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REL280	Myth, Symbol, and Ritual	Lec	3.0	3.0
<p>Introduction to the academic study of religion through the study of myths, religious symbols and rituals. Study of major methods and theoretical models used by scholars to study this diverse and complex subject. Investigation of how myths and symbols--projected ideologies--relate to ritual and other practical activities. Prerequisites: None.</p>				
Type: A	College: MCC	Effective: 2009 Fall		
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ATTACHMENT: NC
NEW COURSES: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

		<u>ACT</u>	<u>CREDITS</u>	<u>PERIODS</u>
REL294	Religion in Community Service	Lec	3.0	3.0

Consideration of the history and nature of the involvement of religious tradition in transformative social action. Incorporates student involvement in some dimension of community service with subsequent integrative classroom activities. Prerequisites: None.

Course Notes: Students must complete twelve (12) hours of community service in a site approved by the instructor and provide documentation.

Type: A College: MCC Effective: 2009 Fall

REL295	Capstone: The Story of Belief	Lec	3.0	3.0
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Analysis of both the process and results of human belief, in various stages of the human experience. Incorporates materials from multiple disciplines to form an overarching narrative that integrates the variations of human belief.

Prerequisites: A grade of "C" or better in any four (4) REL courses.

Type: A College: MCC Effective: 2009 Fall

TRS102	Translation of English to Spanish	Lec	3.0	3.0
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Analysis of the Spanish language with an emphasis on cross-language similarities and differences. Includes the structure of Spanish, cultural and stylistic components, semantics, dialectal differences and lexical obstacles. Widening of lexicon across specific lexical fields and wider shared underpinnings of Greco-Latin etymologies. Brief introduction to historical development of the Spanish language with specific focus on cognates and false cognates.

Prerequisites: (SPA202 or SPA204) and permission of Department or Division.

Type: A College: PC Effective: 2009 Fall

TRS103	Translation of Spanish to English	Lec	3.0	3.0
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Analysis of the English language with an emphasis on cross-language similarities and differences. Course includes the structure of English, cultural and stylistic components, semantics, Standard English conventions, and metaphorical and idiomatic English. Introduction to translation of basic documents from Spanish to English.

Prerequisites: ENGL02 and (SPA202 or SPA204) and permission of Department or Division.

Type: A College: PC Effective: 2009 Fall

ATTACHMENT: NOP
NEW OCCUPATIONAL PROGRAMS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **NOP**
Award Type: **CCL**
Effective First Year Term: **2009 Fall**
Overall G.P.A.: **2.00**

Program Title: **Polysomnographic Technology**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **26**

Major Code: **5695**
Initiator: **Edward Hoskins**

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

Description: The Certificate of Completion (**CCL**) in Polysomnographic Technology includes parallel clinical training in various Valley hospitals and free-standing sleep centers. Polysomnographic Technology Program prepares polysomnographic technologists (sleep technologists) to assist physicians specializing in sleep medicine in the clinical assessment, physiological monitoring and testing, diagnosis, management, and treatment of sleep related disorders with the use of various diagnostic and therapeutic tools providing care to patients of all ages. These tools include but are not limited to polysomnography, positive airway pressure devices, oximetry, capnography, actigraphy, supplemental oxygen, screening devices, and questionnaires. Successful completion of the Certificate of Completion in Polysomnographic Technology Program enables the student to take the Board of Registered Polysomnographic Technologists (BRPT) examination to become a registered Polysomnographic Technologist (RPSGT).

Program Notes:

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

Admission Criteria: Formal application and admission to the program is required.

Graduate of postsecondary higher learning institution program in Respiratory Therapy accredited by the Higher Learning Commission, a Commission of the North Central Association of Colleges and Schools, and the Commission on Accreditation of Allied Health Educational Programs (CAAHEP) with recommendation from Committee on Accreditation for Respiratory Care (CoARC); or an accrediting agency recognized by the US Secretary of Education and the Commission on Accreditation of Allied Health Educational Programs (CAAHEP) with recommendation from Committee on Accreditation for Respiratory Care (CoARC).

Applicant must be in good standing with the National Board for Respiratory Care (NBRC) and the state licensing body for the Respiratory Care (RCP) license.

Current Health Care Provider cardiopulmonary resuscitation (CPR) card required.

Current Arizona Fingerprint Clearance Card.

Program Prerequisites:None.

Required Courses: 26

+ EEG130	Introduction to EEG	2
+ HCE113	Biomedical Electronics I	2
+ PSG150	Introduction to Sleep Medicine	3
+ PSG160	Polysomnographic Procedures	3
+ PSG165	Clinical Polysomnography I	3
+ PSG170	Sleep Therapeutics	3
+ PSG250	Record Scoring	3
+ PSG260	Special Topics in Polysomnography	2
+ PSG265	Clinical Polysomnography II	2
+ PSG275	Clinical Polysomnography III	3

Restricted Electives: None.

Free Electives:None.

General Education:None.

ATTACHMENT: NOP
NEW OCCUPATIONAL PROGRAMS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: Comic and Sequential Art
Initiating College: PC
Program Availability: College Specific
Total Credits: 37

Major Code: 5687
Initiator: Dale Doubleday

CIPS Code: 50.04.09
Instructional Council: Art (17)

Description: The Certificate of Completion (CCL) in Comic and Sequential Art is designed for the student who wishes to develop marketable skills in the area of sequential art, which encompasses comic book and comic strip art, graphic novels, children's books and/or storyboarding for animation, video, and film. The program provides the student with an understanding of writing storylines, pencil and ink work, and digital sequential art applications. Areas of study include anime, superhero comics, digital painting for comics, comic strips, storyboarding and sequential picture books for children. It prepares students for employment, and upgrades skills of those already employed in this field. Employment opportunities include children's book illustrator, syndicated comic artist, storyboarder for television or film, animator for television or film, cartoonist, self-publisher, video game designer, penciler, inker, colorist, production artist, game designer, and comic book writer.

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: 37

ART100	Introduction to Computer Graphic Art	1
ART111	Drawing I	3
ART/ADA112	Two Dimensional Design	3
+ ART113	Color	3
ART116	Life Drawing I	3
+ ART/ADA177	Computer-Photographic Imaging	3
+ ART/ADA289	Computer Illustration	3
+ ART119	Penciling for Comic and Sequential Art	3
+ ART120	Inking for Comic and Sequential Art	3
+ ART219	Coloring, Toning and Lettering for Comic and Sequential Art	3
+ ART220	Publishing for the Comic Industry	3
ART221	Comics Creation	3
CRW172	Introduction to Comic Book Writing	3

Restricted Electives: None.

Free Electives: None.

General Education: None.

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Graphic Design
Award Type: AAS	Initiating College: GCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 65-67

Major Code: 3567	CIPS Code: 50.04.09
Initiator: Mirta Hamilton	Instructional Council: Art (17)

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

Proposed Program Title To: Graphic Design, Animation and Web Publishing Design
Proposed Total Program To: 61-65

Description: ~~The Graphic Design in Associate in Applied Science (AAS) program~~ **The Associate in Applied Science (AAS) in Graphic Design, Animation and Web Publishing Design** offers **three Tracks: Graphic Design, Animation and Web Publishing Design.** ~~the Foundations study in design, color, typography, electronic color, technology, and software applications~~ **Web design, 3D modeling, and animation combine traditional methods and visual problem solving with electronic tools.** ~~Students enhance traditional methods and visual problem solving with digital imaging, 3D computer modeling, animation, web art and electronic media production. Restricted electives expand student abilities in drawing, life drawing, photography, multimedia and art history.~~ Students develop self promotion skills and prepare a portfolio for entry level employment and/or for transfer to a four year college or university. Program graduates seek and find employment in the advertising, printing, web, ~~and multimedia~~ **animation and games**-industries.

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

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: ~~37~~ **31-35**
 Students must earn a grade of "C" or better for all courses within the "Required Courses" area.

Core: Credits: 19-21

ART100	Introduction to Computer Graphic Art	1
ART112	Two-Dimensional Design	3
+ ART164	Introduction to Drawing and Digital Paint	3
+ ART169	Two-Dimensional Computer Design	3
+ ART174	Electronic Color Principles	1
+ ART180AC	Designer's Tools: Quark Express	1
+ ART180AS	Designer's Tools: Adobe InDesign	1
+ ART180AD	Designer's Tools: Adobe Illustrator	1
+ ART180AE	Designer's Tools: Adobe Photoshop	1
+ ART181	Graphic Design I	3
+ ART182	Graphic Design II	3
+ ART184	Computer Animation	3
+ ART190	Art of Web Site Design	3
ART255AA	Self Promotion (1) OR	
+ ART255AB	The Portfolio (1)	1

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Graphic Design
Award Type: AAS	Initiating College: GCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 65-67

Major Code: 3567	CIPS Code: 50.04.09
Initiator: Mirta Hamilton	Instructional Council: Art (17)

(AAS in Graphic Design continued)

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

Proposed Program Title To: Graphic Design, Animation and Web Publishing Design
Proposed Total Program To: 61-65

ART255	Art Marketing	3
+ ART285	Multipresentation Graphics	3
+ ART291	Digital Prepress	3
+ ART297 AA/AB/AC	Computer Graphic Design Internship	1-3

Graphic Design Track: Credits: 12

+ ART180AC	Designer's Tools: Quark Express	1
+ ART180AS	Designer's Tools: Adobe InDesign	1
+ ART180AD	Designer's Tools: Adobe Illustrator	1
+ ART182	Graphic Design II	3
+ ART210	Design Tools for Imagery, Production, and Publishing	3
+ ART291	Digital Prepress	3

Animation Track: Credits: 14

ART116	Life Drawing I	3
+ ART117	Life Drawing II	3
+ ART185	3-D Modeling for Animation	3
+ ART180AK	Designer's Tools: Adobe Premiere	1
+ ART180AT	Designer's Tools: Adobe After Effects	1
+ ART284	Intermedia Animation	3

Web Publishing Design Track: Credits: 13

+ ART180AD	Designer's Tools: Adobe Illustrator	1
+ ART180AM	Designer's Tools: Dreamweaver	1
+ ART180AN	Designer's Tools: Flash	1
+ ART180AS	Designer's Tools: Adobe InDesign	1
+ ART182	Graphic Design II	3
+ ART190	The Art of Web Site Design	3
+ ART192	Advanced Web Presentation Design	3

Restricted Electives: Credits: 3 5

ARH102	Renaissance through Contemporary Art	3
ARH110	History of Graphic Design	3
+ ART113	Color	3
ART131	Photography I	3
ART142	Introduction to Digital Photography	3
+ ART169	Two-Dimensional Computer Design	3
+ ART180++	Designer's Tools (any suffixed course(s) to a maximum of 5 credits)	1-5
+ ART180AK	Designer's Tools: Adobe Premiere	1
+ ART180AM	Designer's Tools: Macromedia Dreamweaver	1
+ ART180AN	Designer's Tools: Macromedia Flash	1

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: Graphic Design
 Award Type: AAS Initiating College: GCC
 Effective First Year Term: 2009 Fall Program Availability: College Specific
 Overall G.P.A.: 2.0 Total Credits: 65-67

Major Code: 3567 CIPS Code: 50.04.09
 Initiator: Mirta Hamilton Instructional Council: Art (17)

(AAS in Graphic Design continued)

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

Proposed Program Title To: Graphic Design, Animation and Web Publishing Design
Proposed Total Program To: 61-65

+	ART180AP	Designer's Tools: Photoshop for Multimedia	1
+	ART180AR	Designer's Tools: Final Cut Pro	1
+	ART180AT	Designer's Tools: Adobe After Effects	1
+	ART180AU	Designer's Tools: Adobe GoLive	1
+	ART185	3-D Modeling for Animation	3
-	ART187	Perspective Drawing for Animation	3
+	ART190	Art of Web Site Design	3
+	ART192	Advanced Web Presentation Design	3
+	ART210	Design Tools for Imagery, Production, and Publishing	3
+	ART240	Cinematography and Directing for 3D Animation	3
+	ART281	Graphic Design III	3
+	ART284	Intermedia Animation	3
+	ART297AA/AB/AC	Computer Graphic Design Internship	1-3
+	ART298++	Special Projects (any suffixed course)	1-3
	CSC185	World Wide Web and Introductory Internet Programming	3
	CIS126AA	UNIX Operating System: Level I (1) AND	
+	CIS126BA	UNIX Operating System: Level II (1) AND	
+	CIS126CA	UNIX Operating System: Level III (1) OR	
	CIS126DA	UNIX Operating System (3)	3
	CIS133AA	Internet/Web Development Level I-A (1) AND	
+	CIS133BA	Internet/Web Development Level I-B (1) AND	
+	CIS133CA	Internet/Web Development Level I-C (1) OR	
	CIS133DA	Internet/Web Development Level I (3)	3
+	CIS166AA	Introduction to Java Scripting	3
+	CIS235	e-Commerce	3
	CWE198AA/AB/AC	Career/Work Experience	1-3
	MGT253	Owning and Operating a Small Business	3
	SBS200	Small Business Operations	2
	SBS204	Small Business Marketing and Advertising	2
	VPT290	Production for the Web & CD/DVD Mastering	3

Free Electives: None

General Education: Credits: 25-27

CORE: Credits: 15-17

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Graphic Design
Award Type: AAS	Initiating College: GCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 65-67

Major Code: 3567	CIPS Code: 50.04.09
Initiator: Mirta Hamilton	Instructional Council: Art (17)

(AAS in Graphic Design continued)

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

Proposed Program Title To: Graphic Design, Animation and Web Publishing Design
Proposed Total Program To: 61-65

First-Year Composition

+ ENG101	First-Year Composition (3) OR	
+ ENG107	First-Year Composition for ESL (3)	3
+ ENG111	Technical Writing (3) OR	
+ ENG102	First-Year Composition (3) OR	
+ ENG108	First-Year Composition for ESL (3)	3

Oral Communication

COM110	Interpersonal Communication (3) OR	
+ COM230	Small Group Communication (3)	3

Critical Reading

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

Mathematics

MAT102	Mathematical Concepts/Applications (3) OR	
MAT120	Intermediate Algebra (5) OR	
MAT121	Intermediate Algebra (4) OR	
MAT122	Intermediate Algebra (3) OR	
	Equivalent by assessment OR Satisfactory completion of a higher level math course	3-5

DISTRIBUTION: Credits: 10

Humanities and Fine Arts

Any approved general education course in 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		
COM110	Interpersonal Communication (3) OR	
COM230	Small Group Communication (Recommended) (3)	3

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: 6/23/09

Proposal Development Type: OPM	Program Title: Graphic Design
Award Type: CCL	Initiating College: GCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 30-32

Major Code: 5567	CIPS Code: 50.04.09
Initiator: Mirta Hamilton	Instructional Council: Art (17)

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

Proposed Total Program Credits To: 31-33

Description: ~~This~~ **The Certificate of Completion (CCL) in Grapic Design** program covers digital media, traditional design and communications methods that are essential to graphics. Project-based courses stress concept development and visual problem solving, which lead to employment in advertising, publishing and the printing industry. Students will explore the relationship between art, design and technology through coursework in design foundations, graphic design and software applications: layout, composition, typography, digital color, digital prepress, web design, portfolio development, and communication methods.

Program Notes:

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

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: ~~30-32~~ 31-33

COM100	Introduction to Human Communication	3
ART100	Introduction to Computer Graphic Art	1
ART112	Two-Dimensional Design	3
+ ART164	Introduction to Drawing and Digital Paint	3
+ ART174	Electronic Color Principles	1
+ ART180AC	Designer's Tools: Quark XPress	1
+ ART180AD	Designer's Tools: Adobe Illustrator	1
+ ART180AE	Designer's Tools: Adobe Photoshop	1
+ ART180AS	Designer's Tools: Adobe InDesign	1
+ ART181	Graphic Design I	3
+ ART182	Graphic Design II	3
+ ART184	Computer Animation	3
ART190	Art of Web Site Design	3
+ ART210	Design Tools for Imagery, Production, and Publishing	3
ART255	Art Marketing	3
ART255AA	Self Promotion	1
+ ART255AB	The Portfolio	1
+ ART285	Multipresentation Graphics	3
+ ART291	Digital Prepress	3
+ ART297++AA/AB/AC	Computer Graphic Design Internship (1-3) (any suffixed course) OR	1-3
+ ART298++	Special Projects (1-3) (any suffixed course)	1-3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Animation: Imaging and Design Foundation
Award Type: CCL	Initiating College: GCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 23

Major Code:5571	CIPS Code: 11.08.03
Initiator: Mirta Hamilton	Instructional Council: Art (17)

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

Proposed Program Title To: Animation
Proposed Total Program Credits To: 33-35

Description: This program, designed for the student who wishes to develop marketable skills in the area of digital imaging and animation; Working with 2D images, computer three-dimensional modeling, animated character development, concept development and compositing of visual graphics and video footage, student develops entry level skills to enter the multimedia industry. The processes are learned through the use of graphics software, animation software and non-linear video editing software, such as Adobe Premiere, Final Cut, 3D Studio Max, Photoshop, Illustrator and other related applications.

The program prepares the student to identify career goals, present art portfolio, be apprised of pricing, promotion and publicity business ethics, artist rights and the copyright law for multimedia business. Further, the student develops the ability to communicate effectively with the business and industry personnel. Sample job titles could be digital artist, freelance artist-designer, animator, 3D model developer, and entry level games artist.

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

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: ~~23~~ **33-35**

COM100	Introduction to Human Communication	3
ART100	Introduction to Computer Graphic Art	1
ART112	Two-Dimensional Design	3
ART116	Life Drawing I	3
+ ART117	Life Drawing II	3
+ ART164	Introduction to Drawing and Digital Paint	3
+ ART174	Electronic Color Principles	1
+ ART180AD	Designer's Tools: Adobe Illustrator	1
+ ART180AE	Designer's Tools: Adobe Photoshop	1
+ ART180AK	Designer's Tools: Adobe Premiere (1) OR	1
+ ART180AT	Designer's Tools: Adobe After Effects	1
+ ART180AR	Designer's Tools: Final Cut Pro (1)	1
+ ART180AN	Designer's Tools: Macromedia Flash	1
+ ART181	Graphic Design I	3
+ ART184	Computer Animation	3
+ ART185	3-D Modeling for Animation	3
ART255	Art Marketing	3
ART255AA	Self Promotion	1
+ ART255AB	The Portfolio	1
+ ART284	Intermedia Animation	3
TCM100	Digital Multi Media	3
+ ART297AA/AB/AC	Computer Graphic Design Internship	1-3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: Animation: Imaging and Design Foundation
Initiating College: GCC
Program Availability: College Specific
Total Credits: 23

Major Code:5571
Initiator: Mirta Hamilton

CIPS Code: 11.08.03
Instructional Council: Art (17)

(CCL in Animation: Imaging and Design Foundation continued)

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

Proposed Program Title To: Animation
Proposed Total Program Credits To: 33-35

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: Tractor-Trailer Driving
Award Type: CCL Initiating College: GCC
Effective First Year Term: 2009 Fall Program Availability: College Specific
Overall G.P.A.: 2.0 Total Credits: 16

Major Code: 5112 CIPS Code: 49.02.05
Initiator: Doug DeSanti Instructional Council: Occupational Deans Council (53)

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

Proposed Program Title To: Truck Trailer Driving

Description: ~~This is~~ **The Certificate of Completion (CCL) in Truck Trailer Driving program** will provide new entrants into the trucking profession with the knowledge and skills necessary to operate today's equipment safely and efficiently. Students completing the certificate will be prepared to gain employment in entry-level driving positions.

Coursework includes basic operations; safe operating practices in normal, extreme, and adverse driving conditions; basic vehicle maintenance; and non-vehicle activities including the application of federal and state regulations pertaining to vehicle, cargo, speed, and hours-of-service. Instructions will consist of classroom lecture, lab, range, and street driving. ~~Applicants must complete a program-required prescreening to qualify.~~

Program Notes:

+ indicates course has prerequisites and/or corequisites.
Grade of "C" or better required for all courses within the program.

Admission Criteria: Applicants must complete a program-required prescreening to qualify for admission to the program. Must meet pre-qualifying requirements of the industry by providing a social security card, valid Arizona driver's license, five-year motor vehicle report devoid of excessive infractions, and passing Department of Transportation physical exam and drug screen. Any DUI, DWI or reckless/careless driving conviction, or any felony conviction for drug, theft, or sex crimes is considered an excessive infraction.

Program Prerequisites: None

Required Courses: Credits: 16

+ TTD101	Tractor-Trailer Driving I	3
+ TTD102	Tractor-Trailer Driving II	3
+ TTD103	Tractor-Trailer Driving III	4
+ TTD104	Tractor-Trailer Driving Practicum	6

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type:OPM	Program Title:Advanced Emergency Medical Technology (Paramedic)
Award Type:CCL	Initiating College:GCC
Effective First Year Term:2009 Fall	Program Availability:College Specific
Overall G.P.A.: 2.0	Total Credits: 39.5-46.5
Major Code:5276	CIPS Code: 51.09.04
Initiator: Doug DeSanti	Instructional Council:Emergency Medical Tech/Fire Science Technology (54)

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

Proposed Program Availability To: Shared by: GCC, MCC

Description: The Certificate of Completion (CCL) in Advanced Emergency Medical Technology (Paramedic) program includes advanced techniques of emergency care, stabilization, and immobilization of victims of illness and injury. Recognition and documentation of signs and symptoms of illness and injury, intervention, and evaluation of the interventions are other areas of the program. Techniques for assessment include basic electrocardiographic rhythm identification, administration of oxygen, medications approved by the Arizona Department of Health Services, Bureau of Emergency Medical Services, advanced airway techniques, use of specific immobilization devices, peripheral intraosseous and central intravenous techniques, defibrillation, synchronized cardioversion, transcutaneous pacing, preparation and care during transportation.

Program Notes:

+ indicates course has prerequisite and/or corequisites

Admission Criteria: None

Formal application and admission to the program is required.

Minimum ninth grade level reading proficiency.

Program Prerequisites: Credits: 15

A grade of "C" or better is required for all courses in the Program Prerequisites area.

Certificate of Completion in Basic Emergency Medical Technology (5143)	8
BIO156 Human Biology for Allied Health (4) OR BIO181 General Biology (Majors) I (4)	4
Minimum ninth grade level reading proficiency on the Nelson-Denny Examination OR ASSET reading test with a minimum score of 41 OR COMPASS reading test with a minimum score of 84	
PSY101 Introduction to Psychology (3) OR SOC140 Racial and Ethnic Minorities (3)	3

Required Courses: Credits: 38.5

Students must earn a grade of "C" or better in each course within the Required Courses area and students must earn a GPA of 2.5 for all courses in the Required Courses area.

+ EMT235 Emergency Cardiac Care	3
+ EMT236 Pharmacology in an Emergency Setting	3
+ EMT272AA Advanced Emergency Medical Technology (12.5) AND	
+ EMT272AB Advanced Emergency Medical Technology (12.5)	25
+ EMT272LL Advanced Emergency Medical Technology Practicum (7.5)	7.5

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type:OPM	Program Title:Advanced Emergency Medical Technology (Paramedic)
Award Type:CCL	Initiating College:GCC
Effective First Year Term:2009 Fall	Program Availability:College Specific
Overall G.P.A.: 2.0	Total Credits: 39.5-46.5
Major Code:5276	CIPS Code: 51.09.04
Initiator: Doug DeSanti	Instructional Council:Emergency Medical Tech/Fire Science Technology (54)

(CCL in Advanced Emergency Medical Technology (Paramedic) continued)

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

Proposed Program Availability To: Shared by: GCC, MCC

Restricted Electives: Credits: 1-8

Students must earn a grade of "C" or better in each Restricted Elective course with an EMT prefix, with a GPA of 2.5 for all Restricted Electives with EMT prefixes.

+ BIO201	Human Anatomy and Physiology I	4
+ BIO202	Human Anatomy and Physiology II	4
+ EMT/FSC104	Basic Emergency Medical Technology	8
+ EMT/FSC238	Vehicular Extrication and Patient Stabilization	2
+ EMT240	Advanced Cardiac Life Support	2
+ EMT245	Trauma Management I	2
+ EMT246	Trauma Management II	4
EMT258	Victimology & Crisis Management	3
+ EMT265	Pediatric Education for Prehospital Providers	1
+ PSY266	Abnormal Psychology	3

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Heat and Frost Insulation**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **65**

Major Code: **3009**
 Initiator: **Anna Lopez**

CIPS Code: **47.02.01**
 Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Heat and Frost Insulation
Proposed Total Program Credits To: 60-65

Description: The Associate in Applied Science (**AAS**) in **Construction Trades: Heat and Frost Insulation** degree is designed to provide journeyman insulators with general education in the areas of communication, humanities, and social and behavioral sciences that will develop leadership skills needed in the construction field. Graduates are qualified to move into supervisory, foreman, superintendent, and ownership positions within the insulation trade.

Program Notes:

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

Admission Criteria:

Students are admitted to this program through the Heat, Frost, and Asbestos Insulators Joint Apprenticeship and Training Committee (HFA JATC) selection process.

Program Prerequisites: None

Required Courses: Credits: 40 33

Certificate of Completion in Construction Trades: Heat and Frost Insulation (5180)	30
+ BPC/CIS+++++ Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)	3
+ HFA101 Introduction to Insulation	5
+ HFA110 Math for Heat and Frost Technology	5
+ HFA115 Fundamental Insulation Skills: Piping I	5
+ HFA150 Shop Fabrication: Layout and Pattern making for Insulators I	5
+ HFA215 Fundamental Insulation Skills: Piping II	5
+ HFA250 Shop Fabrication: Layout and Pattern making for Insulators II	5
+ HFA260 Blueprints and Firestopping	5
+ HFA270 Supervision for Foreman	5

Restricted Electives: 5

Students should select five (5) credits, except courses used to satisfy Required Courses area, from the following courses:

- BLT+++++** Any BLT Building Safety and Construction technology course(s)
- BPC+++++** Any BPC Business Personal Computers course(s)
- CAD+++++** Any CAD Computer Aided Drafting course(s)
- CNS+++++** Any CNS Construction course(s)
- GBS+++++** Any GBS General Business course(s)
- HFA+++++** Any HFA Heat and Frost Technology course(s)
- IND+++++** Any IND Industry course(s)
- MGT+++++** Any MGT Management course(s)
- OSH+++++** Any OSH Occupational Safety and Health course(s)
- SPA+++++** Any SPA Spanish course(s)
- TDR+++++** Any TDR Trade related course(s)
- WLD+++++** Any WLD Welding Technology course(s)

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Heat and Frost Insulation
Award Type: AAS	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 65
Major Code: 3009	CIPS Code: 47.02.01
Initiator: Anna Lopez	Instructional Council: Occupational Administrators (53)

(AAS in Heat and Frost Insulation continued)

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

Proposed Program Title To: Construction Trades: Heat and Frost Insulation
Proposed Total Program Credits To: 60-65

General Education: Credits: ~~25~~ **22-27**

CORE Credits: ~~45~~ **12-17**

First-Year Composition

+ ENG101	First-Year Composition (3) AND	
+ ENG102	First-Year Composition (3) OR	
+ ENG111	Technical and Professional 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

+ CRE101	Critical and Evaluative Reading I (3) OR	
+ CRE111	Critical Reading for Business and Industry (3) OR	
	Equivalent by Assessment on District Placement Exam	0-3

Mathematics

+ MAT120	Intermediate Algebra (3) OR	
+ MAT121	Intermediate Algebra (3) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Equivalent by Assessment. course 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: 6/23/09

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

Program Title: **Heat and Frost Insulation**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **40**

Major Code: **5180**
Initiator: **Anna Lopez**

CIPS Code: **47.02.01**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Heat and Frost Insulation
Proposed Total Program Credits To: 30

Description: The Certificate of Completion (CCL) in **Construction Trades: Heat and Frost Insulation** program is designed to provide apprentice insulators with trade related classroom training as required by the U.S. Department of Labor, Bureau of Apprenticeship Training, and the State of Arizona, Apprenticeship Division. It is a ~~four-year~~ program consisting of courses in trade calculations, safety, piping insulation skills, fabrication, shop layout, and pattern making, supervision, blueprints and firestopping.

Program Notes:

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

Admission Criteria:

Students are admitted to this program through the Heat, Frost, and Asbestos Insulators Joint Apprenticeship and Training Committee (HFA JATC) selection process.

Program Prerequisites: None

Required Courses: Credits: ~~40~~ **30**

Students should select thirty (30) credits from the following courses:

+ HFA101	Introduction to Insulation	5
+ HFA110	Math for Heat and Frost Technology	5
+ HFA115	Fundamental Insulation Skills: Piping I	5
+ HFA150	Shop Fabrication: Layout and Pattern-making for Insulators I	5
+ HFA215	Fundamental Insulation Skills: Piping II	5
+ HFA250	Shop Fabrication: Layout and Pattern-making for Insulators II	5
+ HFA260	Blueprints and Firestopping	5
+ HFA270	Supervision for Foreman	5

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Plumbing**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **61**

Major Code: **3069**
Initiator: **Anna Lopez**

CIPS Code: **46.05.03**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Plumbing
Proposed Total Program Credits: To:60-65

Description: ~~This~~ **The Associate in Applied Science (AAS) in Construction Trades – Mechanical Trades: Plumbing** program is designed to provide knowledge and skills in the residential, commercial, industrial, and institutional plumbing trade. Course work includes safety, material selection, installation of plumbing systems, basic and advanced plumbing calculations and principles of science. Students will also be competent in sources and treatment of public, private, and individual gas, water, heating, waste, and specialized piping systems, cross connection protection, pipe identification, blueprint reading and plumbing code. Additional related training will include basic electricity and troubleshooting related to the plumbing trade.

~~This~~ **The** program is designed to provide the student with the required classroom trade related training. ~~This~~ **The** classroom training is supplemented with required on-the-job training that then leads the student to obtain the Journeyman Certificate. Two certificates are presented, one by the Arizona Department of Commerce, and the second by the US Department of Labor. The student is then recognized as having achieved "master status" in the plumbing trade.

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:
Formal application and admission to the program is required by the following apprenticeship committee.
~~Four-year apprenticeship program through the following:~~
Metro Phoenix Plumbing, Heating and Cooling Contractors (PHCC)
7635 West Hope Drive, Peoria, Arizona 85345
(623) 486-3324
OR
Tri-City Mechanical
6875 West Galveston
Chandler, Arizona 85226
(480) 940-8400 Extension 150
OR
The Arizona Builders Alliance
1825 West Adams, Phoenix, Arizona 85007
(602) 244-8222.

Program Prerequisites: None

Required Courses: Credit: ~~30~~ **33**

Certificate of Completion in Construction Trades – Mechanical Trades: Plumbing (5336)	30
+ BPC/CIS++++ Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Plumbing**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **61**

Major Code: **3069**
 Initiator: **Anna Lopez**

CIPS Code: **46.05.03**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Mechanical Trades: Plumbing continued)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Plumbing
Proposed Total Program Credits: To:60-65

Students should select thirty (30) credits from the following courses:

+	MEC105	Residential and Industrial Plumbing I	5
+	MEC107	Residential and Industrial Plumbing II	5
+	MEC108	Residential and Industrial Plumbing III	5
+	MEC118	Residential and Industrial Plumbing IV	5
+	MEC205	Residential and Industrial Plumbing V	5
+	MEC207	Residential and Industrial Plumbing VI	5
+	MEC208	Residential and Industrial Plumbing VII	5
+	MEC218	Residential and Industrial Plumbing VIII	5

Restricted Electives: Credits: ~~6~~ **5**

Students should select five (5) credits, except courses used to satisfy Required Courses area, from the following courses:

- BPC+++++** Any BPC Business Personal Computers course(s)
- CAD+++++** Any CAD Computer Aided Drafting course(s)
- CNS+++++** Any CNS Construction course(s)
- IND+++++** Any IND Industry course(s)
- MEC+++++** Any MEC Mechanical Trades course(s)
- OSH+++++** Any OSH Occupational Safety and Health course(s)
- TDR+++++** Any TDR Trade related course(s)
- WLD+++++** Any WLD Welding Technology course(s)

Students should select any 3-credit hour course for a total of 6 credits from the following prefixes.

—	ACC+++++	Any ACC Accounting course(s)	3
—	ECN+++++	Any ECN Economics course(s)	3
—	GBS+++++	Any GBS General Business course(s)	3
—	MGT+++++	Any MGT Management course(s)	3
—	PSY+++++	Any PSY Psychology course(s)	3
—	SOC+++++	Any SOC Sociology course(s)	3
—	SPA+++++	Any SPA Spanish course(s)	3

Free Electives: None

General Education: Credits: ~~25~~ **22-27**

CORE: Credits: ~~45~~ **12-17**

First-Year Composition

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

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Plumbing**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **61**

Major Code: **3069**
 Initiator: **Anna Lopez**

CIPS Code: **46.05.03**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Mechanical Trades: Plumbing continued)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Plumbing
Proposed Total Program Credits: To:60-65

Oral Communication

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

Critical Reading

+ CRE101	Critical and Evaluative Reading I (3) OR	
+ CRE111	Critical Reading for Business and Industry (3) OR	
	Equivalent by assessment on District Placement Exam	0-3

Mathematics

+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR Equivalent by assessment	
	Equivalent course or satisfactory completion of a higher level mathematics course	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	
PSY125	Leadership and Group Dynamics (3) OR	
ECN100	Economics in American Society (3)	3

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
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Plumbing**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5536**
Initiator: **Anna Lopez**

CIPS Code: **46.05.03**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Plumbing

Description: ~~This~~ **The Certificate of Completion (CCL) in Construction Trades – Mechanical Trades: Plumbing program** is designed to provide knowledge and skills in the residential, commercial, industrial, and institutional plumbing trade. Course work includes safety, material selection, installation of plumbing systems, basic and advanced plumbing calculations and principles of science. Students will also be competent in sources and treatment of public, private, and individual gas, water, heating, waste, and specialized piping systems, cross connection protection, pipe identification, blueprint reading and plumbing code. Additional related training will include basic electricity and troubleshooting related to the plumbing trade.

The ~~Certificate of Completion (CCL)~~ program is designed to provide the student with the required classroom trade related training. This classroom training is supplemented with required on-the-job training that then leads the student to obtain the Journeyman Certificate. Two certificates are presented, one by the Arizona Department of Commerce, and the second by the US Department of Labor. The student is then recognized as having achieved "master status" in the plumbing trade.

Program Notes:

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

Admission Criteria:

Formal application and admission to the program is required by the following apprenticeship committee.

~~Four-year apprenticeship program through the following:~~

Metro Phoenix Plumbing, Heating and Cooling Contractors (PHCC)
7635 West Hope Drive, Peoria, Arizona 85345
(623) 486-3324

OR

Tri-City Mechanical
6875 West Galveston
Chandler, Arizona 85226
(480) 940-8400 Extension 150

OR

The Arizona Builders Alliance
1825 West Adams, Phoenix, Arizona 85007
(602) 244-8222.

Program Prerequisites: None

Required Courses: Credit: 30

Students should select thirty (30) credits from the following courses:

+ MEC105	Residential and Industrial Plumbing I	5
+ MEC107	Residential and Industrial Plumbing II	5
+ MEC108	Residential and Industrial Plumbing III	5

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Plumbing**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5536**
Initiator: **Anna Lopez**

CIPS Code: **46.05.03**
Instructional Council: **Occupational Administrators (53)**

(CCL in Mechanical Trades: Plumbing continued)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Plumbing

+ MEC118	Residential and Industrial Plumbing IV	5
+ MEC205	Residential and Industrial Plumbing V	5
+ MEC207	Residential and Industrial Plumbing VI	5
+ MEC208	Residential and Industrial Plumbing VII	5
+ MEC218	Residential and Industrial Plumbing VIII	5

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Mechanical Trades: Heating, Ventilating and Air Conditioning
Award Type: AAS	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 60
Major Code: 3075	CIPS Code: 47.02.01
Initiator: Anna Lopez	Instructional Council: Occupational Administrators (53)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Heating, Ventilating and Air Conditioning

Proposed Total Program Credits To: 60-65

Description: The Associate in Applied Science (AAS) in **Construction Trades – Mechanical Trades: HVAC** program is designed to provide knowledge and skills in the Heating, Ventilation and Air Conditioning (HVAC) trade. Course work includes basic principles of HVAC, trade calculations and science. Students will gain competence in piping, soldering and brazing procedures. Topics covered will include: air distribution, venting and sizing of materials, use of measurement instruments, equipment, and devices, compressors and pumps. Heating with gas-fired equipment and furnaces will be covered. Students will apply common techniques in testing, troubleshooting and maintenance practices. Additional related training will include basic electricity as it relates to the HVAC trade.

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:

Formal application and admission to the program is required by the following apprenticeship committee.

~~Four-year apprenticeship program through the following:~~

Arizona Builders Alliance (ABA)

1825 West Adams
Phoenix, Arizona 85017
(602) 274-8222

OR

Tri City Mechanical
6875 West ~~Galveston~~ **Galveston**
Chandler, Arizona 85226
(480) 940-8400 Extension 150

OR

The Plumbing, Heating, and Cooling Contractors Association (PHCC)
7635 West Hope Drive
Peoria, Arizona 85345
(623) 486-3324

Program Prerequisites: None.

Required Courses: Credit: ~~30~~ **33**

Certificate of Completion in Construction Trades – Mechanical Trades: Heating, Ventilating and Air Conditioning (5543) **30**

+ **BPC/CIS+++++** **Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)** **3**

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Mechanical Trades: Heating, Ventilating and Air Conditioning
Award Type: AAS	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 60
Major Code: 3075	CIPS Code: 47.02.01
Initiator: Anna Lopez	Instructional Council: Occupational Administrators (53)

(AAS in Mechanical Trades: Heating, Ventilating and Air Conditioning continued)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Heating, Ventilating and Air Conditioning
Proposed Total Program Credits To: 60-65

~~Students should select six (6) of the following optional courses to complete a total of thirty (30) credits:~~

+ MEC101	HVAC I: Principles and Trade Calculations	5
+ MEC103	HVAC II: Piping, Soldering, Brazing, and Electrical	5
+ MEC106	HVAC III: Systems	5
+ MEC124	HVAC IV: Equipment, Devices, Compressors and Pumps	5
+ MEC201	HVAC V: Maintenance and Troubleshooting	5
+ MEC203	HVAC VI: Troubleshooting Heating and Cooling Systems	5
+ MEC206	HVAC VII: Air Quality and Energy Conservation	5
+ MEC224	HVAC VIII: Water Treatment and HVAC Design	5

Free Electives: None

Restricted Electives: Credits: 5

Students should select five (5) credits, except courses used to satisfy Required Courses area, from the following courses:

- BLT+++++** Any BLT Building Safety and Construction technology course(s)
- BPC+++++** Any BPC Business Personal Computers course(s)
- CAD+++++** Any CAD Computer Aided Drafting course(s)
- CNS+++++** Any CNS Construction course(s)
- GBS+++++** Any GBS General Business course(s)
- IND+++++** Any IND Industry course(s)
- MEC+++++** Any MEC Mechanical Trades course(s)
- MGT+++++** Any MGT Management course(s)
- OSH+++++** Any OSH Occupational Safety and Health course(s)
- SPA+++++** Any SPA Spanish course(s)
- TDR+++++** Any TDR Trade related course(s)
- WLD+++++** Any WLD Welding Technology course(s)

~~Students should select any course(s) for a total of 5 credits from the following prefixes.~~

- ~~—~~ ~~IND+++++~~ ~~Any IND Industry course(s)~~
- ~~—~~ ~~MEC+++++~~ ~~Any MEC Mechanical Apprenticeship course(s)~~

General Education: Credits: ~~25~~ **22-27**

CORE: Credits: ~~45~~ **12-17**

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Mechanical Trades: Heating, Ventilating and Air Conditioning
Award Type: AAS	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 60
Major Code: 3075	CIPS Code: 47.02.01
Initiator: Anna Lopez	Instructional Council: Occupational Administrators (53)

(AAS in Mechanical Trades: Heating, Ventilating and Air Conditioning continued)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Heating, Ventilating and Air Conditioning
Proposed Total Program Credits To: 60-65

First-Year Composition

+ ENG101	First-Year Composition (3) AND	
+ ENG102	First-Year Composition (3) OR	
+ ENG111	Technical and Professional 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

+ CRE101	Critical and Evaluative Reading I (3) OR	
+ CRE111	Critical Reading for Business and Industry (3) OR	
	Equivalent by Assessment on District Placement Exam	0-3

Mathematics

+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Equivalent by Assessment course or satisfactory completion of a higher level mathematics course	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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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
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Mechanical Trades: Heating, Ventilating and Air Conditioning
Award Type: CCL	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 30
Major Code: 5543	CIPS Code: 47.02.01
Initiator: Anna Lopez	Instructional Council: Occupational Administrators (53)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Heating, Ventilating and Air Conditioning

Description: The Certificate of Completion (CCL) in **Construction Trades – Mechanical Trades: HVAC** program is designed to provide knowledge and skills in the Heating, Ventilation and Air Conditioning (HVAC) trade. Course work includes basic principles of HVAC, trade calculations and science. Students will gain competence in piping, soldering and brazing procedures. Topics covered will include: air distribution, venting and sizing of materials, use of measurement instruments, equipment, and devices, compressors and pumps. Heating with gas-fired equipment and furnaces will be covered. Students will apply common techniques in testing, troubleshooting and maintenance practices. Additional related training will include basic electricity as it relates to the HVAC trade.

The certificate program is designed to provide the apprentice with a combination of classroom related training and on-the-job-training which leads to a Journeyman Certificate. This certificate is presented by the Arizona Department of Commerce and the US Department of Labor granting and recognizing "master status" in the trade.

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:

Formal application and admission to the program is required by the following apprenticeship committee. ~~Four-year apprenticeship program through the following:~~

Arizona Builders Alliance (ABA)

1825 West Adams
Phoenix, Arizona 85017
(602) 274-8222

OR

Tri City Mechanical
6875 West Galveston **Galveston**
Chandler, Arizona 85226
(480) 940-8400 Extension 150

OR

The Plumbing, Heating, and Cooling Contractors Association (PHCC)
7635 West Hope Drive
Peoria, Arizona 85345
(623) 486-3324

Program Prerequisites: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Mechanical Trades: Heating, Ventilating and Air Conditioning
Award Type: CCL	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 30
Major Code: 5543	CIPS Code: 47.02.01
Initiator: Anna Lopez	Instructional Council: Occupational Administrators (53)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Heating, Ventilating and Air Conditioning

Required Courses: Credit: 30

Students should select six (6) of the following optional courses to complete a total of thirty (30) credits:

+ MEC101	HVAC I: Principles and Trade Calculations	5
+ MEC103	HVAC II: Piping, Soldering, Brazing, and Electrical	5
+ MEC106	HVAC III: Systems	5
+ MEC124	HVAC IV: Equipment, Devices, Compressors and Pumps	5
+ MEC201	HVAC V: Maintenance and Troubleshooting	5
+ MEC203	HVAC VI: Troubleshooting Heating and Cooling Systems	5
+ MEC206	HVAC VII: Air Quality and Energy Conservation	5
+ MEC224	HVAC VIII: Water Treatment and HVAC Design	5

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Sheet Metal**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **60**

Major Code: **3077**
Initiator: **Anna Lopez**

CIPS Code: **48.05.06**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Sheet Metal
Proposed Total Program Credits To: 60-65

Description: The Associate in Applied Science (AAS) in **Construction Trades – Mechanical Trades: Sheet Metal** program is designed to provide knowledge in the Sheet Metal trade which will enable the student to apply master skills as a sheet metal worker. Course work will include: safety, basic sheet metal principles, trade calculations, piping practices, blueprint reading, refrigeration fundamentals, mechanical systems and heat pumps. Students will be competent in fabrication, triangulation, gutters, downspouts, chimneys, insulation and moisture prevention. The Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) manuals and standards will be supplemental materials used in the classroom. Additionally, students will examine factors involved in estimating labor and materials, equipment and delivery.

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:

Formal application and admission to the program is required by the following apprenticeship committee.
~~Four-year apprenticeship program through the following:~~

Arizona Builders Alliance (ABA)
1825 West Adams
Phoenix, Arizona 85017
(602) 274-8222

OR

Tri City Mechanical
6875 West ~~Galveston~~ **Galveston**
Chandler, Arizona 85226
(480) 940-8400 Extension 150

OR

The Plumbing, Heating, and Cooling Contractors Association (PHCC)
7635 West Hope Drive
Peoria, Arizona 85345
(623) 486-3324

Program Prerequisites: None

Required Courses: Credit: ~~30~~ **33**

Certificate of Completion in Construction Trades – Mechanical Trades: Sheet Metal (5545)	30
+ BPC/CIS+++++ Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Sheet Metal**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **60**

Major Code: **3077**
Initiator: **Anna Lopez**

CIPS Code: **48.05.06**
Instructional Council: **Occupational Administrators (53)**

(AAS in Mechanical Trades: Sheet Metal continued)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Sheet Metal
Proposed Total Program Credits To: 60-65

~~Students should select six (6) of the following optional courses to complete a total of thirty (30) credits:~~

+ MEC110	Introduction to Sheet Metal	5
+ MEC114	Sheet Metal: Insulation, Air, Layout and Fabrication	5
+ MEC126	Sheet Metal: Trade Calculations	5
+ MEC128	SMACNA Manuals and Standards	5
+ MEC226	Construction Sheet Metal and Mechanical Systems I	5
+ MEC228	Construction Sheet Metal and Mechanical Systems II	5
+ MEC230	Construction Sheet Metal and Mechanical Systems III	5
+ MEC240	Construction Sheet Metal and Mechanical Systems IV	5

Free Electives: None

Restricted Electives: Credits: 5

Students should select five (5) credits, except courses used to satisfy Required Courses area, from the following courses:

- BLT+++++** Any BLT Building Safety and Construction technology course(s)
- BPC+++++** Any BPC Business Personal Computers course(s)
- CAD+++++** Any CAD Computer Aided Drafting course(s)
- CNS+++++** Any CNS Construction course(s)
- GBS+++++** Any GBS General Business course(s)
- IND+++++** Any IND Industry course(s)
- MEC+++++** Any MEC Mechanical Trades course(s)
- MGT+++++** Any MGT Management course(s)
- OSH+++++** Any OSH Occupational Safety and Health course(s)
- SPA+++++** Any SPA Spanish course(s)
- TDR+++++** Any TDR Trade related course(s)
- WLD+++++** Any WLD Welding Technology course(s)

~~Students should select any course(s) for a total of 5 credits from the following prefixes.~~

- ~~— IND+++++~~ Any IND Industry course(s)
- ~~— MEC+++++~~ Any MEC Mechanical Apprenticeship course(s)

General Education: Credits: ~~25~~ **22-27**

CORE: Credits: ~~45~~ **12-17**

First-Year Composition

- + ENG101 First-Year Composition (3) AND
- + ENG102 First-Year Composition (3) OR
- + ENG111 Technical **and Professional** Writing (3)

6

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Sheet Metal**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **60**

Major Code: **3077**
 Initiator: **Anna Lopez**

CIPS Code: **48.05.06**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Mechanical Trades: Sheet Metal continued)

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

Proposed Program Title To: Construction Trades – Mechanical Trades: Sheet Metal
Proposed Total Program Credits To: 60-65

Oral Communication

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

Critical Reading

+ CRE101	Critical and Evaluative Reading I (3) OR	
+ CRE111	Critical Reading for Business and Industry (3) OR	
	Equivalent by Assessment on District Placement Exam	0-3

Mathematics

+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Equivalent by Assessment course or satisfactory completion of a higher level mathematics course	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
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Sheet Metal**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5545**
Initiator: **Anna Lopez**

CIPS Code: **48.05.06**
Instructional Council: **Occupational Administrators (53)**

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

Propose Program Title To: Construction Trades – Mechanical Trades: Sheet Metal

Description: The Certificate of Completion (CCL) in **Construction Trades – Mechanical Trades: Sheet Metal** program is designed to provide knowledge in the Sheet Metal trade which will enable the student to apply master skills as a sheet metal worker. Course work will include: safety, basic sheet metal principles, trade calculations, piping practices, blueprint reading, refrigeration fundamentals, mechanical systems and heat pumps. Students will be competent in fabrication, triangulation, gutters, downspouts, chimneys, insulation and moisture prevention. The Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) manuals and standards will be supplemental materials used in the classroom. Additionally students will examine factors involved in estimating labor and materials, equipment and delivery.

The Mechanical Trades: Sheet Metal program is designed to provide the apprentice with a combination of classroom related training and on-the-job-training which leads to a Journeyman Certificate. This certificate is presented by the Arizona Department of Commerce and the US Department of Labor granting and recognizing "master status" in the trade.

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:

Formal application and admission to the program is required by the following apprenticeship committee.
~~Four-year apprenticeship program through the following:~~

Arizona Builders Alliance (ABA)
1825 West Adams
Phoenix, Arizona 85017
(602) 274-8222
OR

Tri City Mechanical
6875 West Galveston ~~Galveston~~ **Galveston**
Chandler, Arizona 85226
(480) 940-8400 Extension 150
OR

The Plumbing, Heating, and Cooling Contractors Association (PHCC)
7635 West Hope Drive
Peoria, Arizona 85345
(623) 486-3324

Program Prerequisites: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Mechanical Trades: Sheet Metal**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5545**
Initiator: **Anna Lopez**

CIPS Code: **48.05.06**
Instructional Council: **Occupational Administrators (53)**

(CCL in Mechanical Trades: Sheet Metal continued)

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

Propose Program Title To: Construction Trades – Mechanical Trades: Sheet Metal

Required Courses: Credit: 30

Students should select six (6) of the following optional courses to complete a total of thirty (30) credits:

+ MEC110	Introduction to Sheet Metal	5
+ MEC114	Sheet Metal: Insulation, Air, Layout and Fabrication	5
+ MEC126	Sheet Metal: Trade Calculations	5
+ MEC128	SMACNA Manuals and Standards	5
+ MEC226	Construction Sheet Metal and Mechanical Systems I	5
+ MEC228	Construction Sheet Metal and Mechanical Systems II	5
+ MEC230	Construction Sheet Metal and Mechanical Systems III	5
+ MEC240	Construction Sheet Metal and Mechanical Systems IV	5

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Heavy Equipment Operations**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **60**

Major Code: **3083**
 Initiator: **Anna Lopez**

CIPS Code: **49.02.02**
 Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Heavy Equipment Operations
Proposed Total Program Credits To: 60-65

Description: In addition to the skills developed by the Certificate of Completion in **Construction Trades: Heavy Equipment Operations**, the Associate in Applied Science (AAS) degree allows the student to expand their academic experience in the general education arena. The degree allows the student to advance within the Maricopa County system to management and supervisory positions.

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:
 Formal application and admission to the program is required through the Maricopa County Department of Transportation (MCDOT).

Program Prerequisites: None

Required Courses: Credits: ~~30~~ **33**

Certificate of Completion in Construction Trades: Heavy Equipment Operations (5566)	30
+ BPC/CIS+++++ Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)	3

Restricted Electives: Credit: 5
 Students should select five (5) credits, **except courses used to satisfy Required Courses area**, from the following courses:

BLT+++++	Any BLT Building Safety and Construction technology course(s)	
BPC+++++	Any BPC Business Personal Computers course(s)	
CAD+++++	Any CAD Computer Aided Drafting course(s)	
CNS+++++	Any CNS Construction course(s)	
GBS+++++	Any GBS General Business course(s)	
HEO+++++	Any HEO Heavy Equipment Operations course(s)	
IND+++++	Any IND Industry course(s)	
MGT+++++	Any MGT Management course(s)	
OSH+++++	Any OSH Occupational Safety and Health course(s)	
SPA+++++	Any SPA Spanish course(s)	
TDR+++++	Any TDR Trade related course(s)	5
WLD+++++	Any WLD Welding Technology course(s)	5

General Education: Credits: ~~25~~ **22-27**

CORE: Credits: ~~45~~ **12-17**

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Heavy Equipment Operations**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **60**

Major Code: **3083**
 Initiator: **Anna Lopez**

CIPS Code: **49.02.02**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Heavy Equipment Operations continued)

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

Proposed Program Title To: Construction Trades: Heavy Equipment Operations
Proposed Total Program Credits To: 60-65

First-Year Composition

- + ENG101 First-Year Composition (3) AND
- + ENG102 First-Year Composition (3) OR
- + ENG111 Technical **and Professional** 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

- + **CRE101 Critical and Evaluative Reading I (3) OR**
- + CRE111 Critical Reading for Business and Industry (3) OR
 Equivalent by Assessment **on District Placement Exam** 0-3

Mathematics

- + **MAT120 Intermediate Algebra (5) OR**
- + **MAT121 Intermediate Algebra (4) OR**
- + MAT122 Intermediate Algebra (3) OR
 Equivalent ~~by Assessment~~ **course or satisfactory completion
 of a higher level mathematics course** 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
 MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Heavy Equipment Operations**
 Award Type: **CCL** Initiating College: **GWCC**
 Effective First Year Term: **2009 Fall** Program Availability: **College Specific**
 Overall G.P.A.: **2.00** Total Credits: **30**

Major Code: **5566** CIPS Code: **49.02.02**
 Initiator: **Anna Lopez** Instructional Council: **Occupational Deans (53)**

Proposed Program Title To: Construction Trades: Heavy Equipment Operations
Proposed Total Program Credits To: 30

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

Description: The Certificate of Completion (CCL) in **Construction Trades: Heavy Equipment Operations** is designed to train heavy equipment operators in safety related to heavy equipment operations, basic calculations, rigging, maintenance, and troubleshooting. Specific vehicles that will be used in training will include but not be limited to: tractors, scrapers, aerial lift trucks, backhoes, graders, forklifts, bull dozers, all terrain vehicles, excavators, and cranes. Training will include earth moving, grading, soil analysis, and soil compaction. This classroom training is supplemented with required on-the-job-training that leads the student to obtain certification from Maricopa County Department of Transportation (MCDOT).

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:
 Formal application and admission to the program is required through the Maricopa County Department of Transportation (MCDOT).

Program Prerequisites: None

Required Courses: Credits: 30

Students should select thirty (30) credits from the following courses:

+ ABC118	OSHA Standards and Regulations	1.5
+ ABC/MEC119	Basic Safety	1
+ ABC/MEC120	Basic Calculations for Construction	1.5
+ ABC/MEC121	Introduction to Hand and Power Tools	1
+ ABC/HEO/MEC122	Rigging Safety and Equipment	1
+ ABC/MEC123	Introduction to Blueprints	1
+ HEO101	Introduction to Heavy Equipment Operations	1
+ HEO104	Heavy Equipment Maintenance	1
+ HEO106	Tractors	1
+ HEO107	Heavy Equipment Operations: Soils I	1
+ HEO109	Heavy Equipment Operations: Soils II	1
+ HEO115	Aerial Lift Truck Operation and Safety	1
+ HEO/PPT117	Forklift Operations	1
+ HEO124	Scrapers	2
+ HEO125	Heavy Equipment Operations: Rollers	1
+ HEO134	Backhoe Operations	1
+ HEO135	Grades I	1
+ HEO137	Grades II	1
+ HEO139	All Terrain Vehicle Operation and Safety	1
+ HEO201	Introduction to Earth Moving	1
+ HEO206	Front-end Loaders	2

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Heavy Equipment Operations**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5566**
Initiator: **Anna Lopez**

CIPS Code: **49.02.02**
Instructional Council: **Occupational Deans (53)**

(CCL in Heavy Equipment Operations continued)

Proposed Program Title To: Construction Trades: Heavy Equipment Operations
Proposed Total Program Credits To: 30

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

+ HEO207	Heavy Equipment Operations: Soils III	1
+ HEO212	Heavy Equipment Operations: Finish Operator	1
+ HEO214	Heavy Equipment Operations: Excavators	1
+ HEO216	Motor Graders	2
+ HEO222	Heavy Equipment Operations: Finishing and Grading	1
IND142	Construction Safety/Loss Prevention	1
OSH105	Construction Safety	2
+ TDR102	Construction Soft Skills I: Workplace Skills	1
+ TDR104	Construction Soft Skills II: Listening and Speaking	1
+ TDR106	Construction Soft Skills III: Resolving Workplace Issues	1

Restricted Electives: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Manufacturing Productivity**
 Award Type: **AAS** Initiating College: **GWCC**
 Effective First Year Term: **2009 Fall** Program Availability: **College Specific**
 Overall G.P.A.: **2.00** Total Credits: **60-63**

Major Code: **3255** CIPS Code: **15.06.13**
 Initiator: **Dave Zamora** Instructional Council: **Applied Technology (57)**

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

Proposed Program Title To: Production Technology
Proposed Total Program Credits To: 66-72

Description: The ~~Manufacturing Productivity~~ **Associate in Applied Science (AAS) in Production Technology** program prepares students for employment in various engineering, manufacturing and quality disciplines related to productivity improvement, in a variety of manufacturing industries. Students develop skills with a specialization emphasis in ~~areas such as Productivity, Team Leadership, Engineering Graphics,~~ Computer Numerical Control Computer Aided Design/Computer Aided Manufacturing Programming **Technician (CNC CAD/CAM), CNC Technician,** and Quality **Systems and Process Improvement.** The program of study includes quality practices and leadership principles with an emphasis on skills and knowledge essential for technicians who will be working in the related disciplines. Upon completion of the Associate in Applied Science Degree, a student will have acquired a working knowledge of how to function as a technician ~~in any one of the specialization areas. Depending on the specialist area pursued, a technician may be required to develop and analyze manufacturing processes, develop and integrate supply chain programs, interpret and manipulate CAD models, program and operate various manual and CNC machines, perform job scheduling, process planning, product and process analysis, process operation, quality systems evaluation and~~ **perform other duties typically associated within the manufacturing productivity requirements in Production Technology as a CNC technician with Quality Systems training and Process Improvement expertise.**

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: ~~39-44~~ **45**

Certificate of Completion in Manufacturing Productivity: Conventional Machines Level I (5422) AND	19
Certificate of Completion in Manufacturing Productivity: Conventional Machines Level II (5424) OR	20
Certificate of Completion in Manufacturing Productivity: Process Improvement (5426) OR	22
Certificate of Completion in Manufacturing Productivity: Team Leadership (5434) OR	20
Certificate of Completion in Manufacturing Productivity: Engineering Graphics (5437) OR	21
Certificate of Completion in Manufacturing Productivity: CNC CAD/CAM Programming (5438) OR	22
Certificate of Completion in Manufacturing Productivity: CNC Operation (5440) OR	22
Certificate of Completion in Manufacturing Productivity: Quality Assurance (5441)	21
+ MET112 Inspection Techniques	3
+ MET113 Applied Geometric Dimensioning and Tolerancing	3
MET119 Workplace Quality Systems	3
GTC/MET206 CNC Programming	3
+ MET207 CNC Mill: Operator Training I	3
+ MET208 CNC Lathe: Operator Training I	3
+ MET210 CNC Lathe: Operator Training II	3
+ MET220 Fundamentals of Coordinate Measuring Machines (CMM)	3
+ MET224 Applied Statistical Process Control Methods	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Manufacturing Productivity**
 Award Type: **AAS** Initiating College: **GWCC**
 Effective First Year Term: **2009 Fall** Program Availability: **College Specific**
 Overall G.P.A.: **2.00** Total Credits: **60-63**

Major Code: **3255** CIPS Code: **15.06.13**
 Initiator: **Dave Zamora** Instructional Council: **Applied Technology (57)**

(AAS in Manufacturing Productivity continued)

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

Proposed Program Title To: Production Technology
Proposed Total Program Credits To: 66-72

+ MET231	Manufacturing Processes and Materials	3	
+ MET236AD	CAD/CAM Computer Numerical Control (CNC) Programming: MasterCam	3	3
+ MET246AD	Advanced CAD/CAM CNC Programming: MasterCam	3	
+ MET254	Lean and Six Sigma Applied Concepts	3	
+ MET284	Advanced Quality Process Methods	3	
+ MET286AE	Solid Design I: Part Modeling: Solid Works	3	

Restricted Electives: None

Free Electives: None

General Education: Credits: 21-~~22~~-27

CORE Credits: 12-17

First Year Composition

ENG101	First-Year Composition (3) OR		
+ ENG107	First-Year Composition for ESL (3) AND		
+ ENG111	Technical and Professional Writing (3)	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		
COM110	Interpersonal Communication (3) OR		
COM110AA	Interpersonal Communication Part I (1) AND		
COM110AB	Interpersonal Communication Part II (1) AND		
COM110AC	Interpersonal Communication Part III (1)	3	

Critical Reading

+ CRE101	Critical and Evaluative Reading I (3) OR		
+ CRE111	Critical Reading for Business and Industry (3) OR Equivalent by assessment on District Placement Exam	0-3	

Mathematics

+ Met by MET/GTC108 in Required Courses		0	
+ MAT120	Intermediate Algebra (5) OR		
+ MAT121	Intermediate Algebra (4) OR		
+ MAT122	Intermediate Algebra (3) OR Equivalent courses or satisfactory completion of a higher level mathematics course	3-5	

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Manufacturing Productivity**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **60-63**

Major Code: **3255**
Initiator: **Dave Zamora**

CIPS Code: **15.06.13**
Instructional Council: **Applied Technology (57)**

(AAS in Manufacturing Productivity continued)

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

Proposed Program Title To: Production Technology
Proposed Total Program Credits To: 66-72

DISTRIBUTION: Credits: 9-10

Humanities and Fine Arts	
Any approved general education course in the Humanities and Fine Arts area	2-3
Social and Behavioral Sciences	
Any approved general education course in the Social and Behavioral Sciences area	3
Natural Science	
Any approved general education course in the Natural Sciences area	4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Manufacturing Productivity: Quality Assurance
Award Type: CCL	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 21
Major Code: 5441	CIPS Code: 15.06.13
Initiator: Dave Zamora	Instructional Council: Applied Technology (57)

Proposed Program Title: Production Technology: Quality Assurance
Proposed Total Program Credits To: 24

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

Description: The Certificate of Completion (CCL) is designed for students to obtain the skills required to be considered as a quality technician in a manufacturing environment.

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

Prerequisites: Credits: ~~3-49~~

MAT082	Basic Arithmetic (3) OR higher level mathematics course OR	
MAT092	Introductory Algebra (3) OR	
	higher level mathematics course OR	
	satisfactory score on District Placement exam AND	3
A minimum of one year documented work experience in the manufacturing field OR		3
Certificate of Completion in Manufacturing Productivity: Conventional Machines Level I (5422)		19

Required Courses: Credits: ~~24~~ **24**

MET109	Machine Trades Print Reading	3
+ MET111	Geometric Dimensioning and Tolerancing-Technologist Level	3
+ MET112	Inspection Techniques	3
+ MET113	Applied Geometric Dimensioning and Tolerancing-Senior Level	3
MET114	Quality Systems	1
MET119	Workplace Quality Systems	3
MET124	Statistical Process Control for Technicians	2
+ MET126	Analyst Level Statistical Process Control	2
MET128	ISO Procedures	1
+ MET220	Fundamentals of Coordinate Measuring Machines (CMM)	3
+ MET224	Applied Statistical Process Control Methods	3
+ MET231	Manufacturing Processes and Materials	3
+ MET254	Lean and Six Sigma Applied Concepts	3
+ MET284	Advanced Quality Process Methods	3

Restricted Electives: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Bricklaying**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **61**

Major Code: **3420**
 Initiator: **Anna Lopez**

CIPS Code: **46.01.01**
 Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Bricklaying
Proposed Total Program Credits To: 60-65

Description: The Associate in Applied Science (AAS) in **Construction Trades: Bricklaying** degree is designed to provide journeyman bricklayers with general education in the areas of communication, humanities, and social and behavioral sciences that develop leadership skills needed in the construction field. Graduates are qualified to move into supervisory, foreman, superintendent, and ownership positions within the Bricklaying trade.

Program Notes:

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

Admission Criteria: ~~None.~~

Students are admitted to this program through: Phoenix Bricklaying and Tilesetting Joint Apprenticeship Training Committee selection process.

Program Prerequisites: **None**

~~—Registered apprentice status in the State of Arizona with a trade-specific sponsoring organization.~~

Required Courses: Credits: ~~30~~ **33**

Certificate of Completion in Construction Trades: Bricklaying (5391)	30
+ BPC/CIS+++++ Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)	3
+ BKL105 Basic Masonry Skills and Trade Calculations I	5
+ BKL115 Basic Masonry Skills and Trade Calculations II	5
+ BKL205 Advanced Brick and Block Construction	5
+ BKL215 Blueprint Reading: Residential and Light Construction	5
+ BKL225 Blueprint Reading: Heavy Commercial	5
+ BKL235 Masonry Estimating and Formal Bidding	5

Restricted Electives: ~~None.~~ **5**

Students should select five (5) credits, except courses used to satisfy Required Courses area, from the following courses:

- BLK+++++** Any BLK Bricklaying course(s)
- BLT+++++** Any BLT Building Safety and Construction technology course(s)
- BPC+++++** Any BPC Business Personal Computers course(s)
- CAD+++++** Any CAD Computer Aided Drafting course(s)
- CNS+++++** Any CNS Construction course(s)
- GBS+++++** Any GBS General Business course(s)
- IND+++++** Any IND Industry course(s)
- MGT+++++** Any MGT Management course(s)
- OSH+++++** Any OSH Occupational Safety and Health course(s)
- SPA+++++** Any SPA Spanish course(s)
- TDR+++++** Any TDR Trade related course(s)
- WLD+++++** Any WLD Welding Technology course(s)

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Bricklaying**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **61**

Major Code: **3420**
 Initiator: **Anna Lopez**

CIPS Code: **46.01.01**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Bricklaying continued)

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

Proposed Program Title To: Construction Trades: Bricklaying
Proposed Total Program Credits To: 60-65

Free Electives: ~~6~~ **None**

General Education: Credits: ~~25~~ **22-27**

CORE: Credits: ~~45~~ **12-17**

First-Year Composition

- + ENG101 First-Year Composition (3) AND
- + ENG102 First-Year Composition (3) OR
- + ENG111 Technical **and Professional** 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

- + **CRE101 Critical and Evaluative Reading I (3) OR**
- + CRE111 Critical Reading for Business and Industry (3) OR
 Equivalent by Assessment **on District Placement Exam** 0-3

Mathematics

- + **MAT120 Intermediate Algebra (5) OR**
- + **MAT121 Intermediate Algebra (4) OR**
- + MAT122 Intermediate Algebra (3) OR
 Equivalent by Assessment **course or satisfactory completion
 of a higher level mathematics course** 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
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Bricklaying**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5391**
Initiator: **Anna Lopez**

CIPS Code: **46.01.01**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Bricklaying

Description: The Certificate of Completion (**CCL**) program in **Construction Trades: Bricklaying** is designed to provide apprentice bricklayers with trade-related classroom training as required by the U.S. Department of Labor, Bureau of Apprenticeship Training, and the State of Arizona, Apprenticeship Division. This ~~three-year~~ program consists of ~~six, five-credit~~ courses including trade calculations, safety, tools, bricklaying and masonry techniques; residential, light construction, and heavy commercial blueprint reading; estimating and formal bidding. Completion of this certificate documents the student has successfully completed to Journeyman status in the Bricklaying Trade.

Program Notes:

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

Admission Criteria: None.

Program Prerequisites:

Registered apprentice status in the State of Arizona with a trade-specific sponsoring organization.

Required Courses: Credits: 30

+ BKL105	Basic Masonry Skills and Trade Calculations I	5
+ BKL115	Basic Masonry Skills and Trade Calculations II	5
+ BKL205	Advanced Brick and Block Construction	5
+ BKL215	Blueprint Reading: Residential and Light Construction	5
+ BKL225	Blueprint Reading: Heavy Commercial	5
+ BKL235	Masonry Estimating and Formal Bidding	5

Required Courses: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Carpentry**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **63**

Major Code: **3424**
Initiator: **Anna Lopez**

CIPS Code: **46.02.01**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Carpentry
Proposed Total Program Credits To: 60-65

Description: The Associate in Applied Science (AAS) in **Construction Trades: Carpentry** degree is designed to provide a well-rounded education to the journeyman carpenter/student that will enable that student to advance in the construction industry.

Program Notes:

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

Admission Criteria:

Registered apprentice status in the State of Arizona with a trade-specific sponsoring organization.

Program Prerequisites: None

Required Courses: Credits: 33

Certificate of Completion in Construction Trades: Carpentry (5395)	30
+ BPC/CIS+++++ Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s).	3

Restricted Electives: Credits: 5

Students should select five (5) credits, **except courses used to satisfy Required Courses area**, from the following courses:

BLT+++++	Any BLT Building Safety and Construction technology course(s)
BPC+++++	Any BPC Business Personal Computers course(s)
CAD+++++	Any CAD Computer Aided Drafting course(s)
CNS+++++	Any CNS Construction course(s)
CRP+++++	Any CRP Carpentry: Apprenticeship course(s)
GBS+++++	Any GBS General Business course(s)
IND+++++	Any IND Industry course(s)
MGT+++++	Any MGT Management course(s)
OSH+++++	Any OSH Occupational Safety and Health course(s)
SPA+++++	Any SPA Spanish course(s)
TDR+++++	Any TDR Trade related course(s)
WLD+++++	Any WLD Welding Technology course(s)

Free Electives: None

General Education Requirements: Credits: ~~24-25~~ 22-27

CORE: Credits: ~~45~~ 12-17

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Carpentry**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **63**

Major Code: **3424**
 Initiator: **Anna Lopez**

CIPS Code: **46.02.01**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Carpentry continued)

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

Proposed Program Title To: Construction Trades: Carpentry
Proposed Total Program Credits To: 60-65

First-Year Composition

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

Oral Communication

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

Critical Reading

- + CRE101 Critical and Evaluative Reading I (3) OR
- + CRE111 Critical Reading for Business and Industry (3) OR
 Equivalent by assessment **on District Placement Exam** 0-3

Mathematics

- + **MAT120** **Intermediate Algebra (5) OR**
- + **MAT121** **Intermediate Algebra (4) OR**
- + MAT122 Intermediate Algebra (3) OR
 Equivalent ~~by assessment.~~ **course or satisfactory completion
 of a higher level mathematics course** 3-5

DISTRIBUTION: Credits: 10

Humanities and Fine Arts

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

Natural Sciences

Any approved General Education course from the Natural Sciences area. 4

Social and Behavioral Sciences

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

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Carpentry**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5395**
Initiator: **Anna Lopez**

CIPS Code: **46.02.01**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Carpentry

Description: The Certificate of Completion (CCL) in **Construction Trades: Carpentry** program is designed to provide knowledge and skills in the carpentry trade. These include concrete formwork, framing, exterior finish, interior finish and interior system. Students complete a minimum number of self-selected modules in each area to complement their work site activities.

~~The associate degree program is designed to provide the student with general knowledge and skills including the areas of communication, humanities, and social and behavioral sciences, in addition to trade skills.~~

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:

~~Registered apprentice status in the State of Arizona with a trade specific sponsoring organization.~~

Admission to the program by the following apprenticeship committee:

Southwest Carpenters Training Fund
4547 W. McDowell, Suite 5
Phoenix, Arizona 85035
(602) 272-6547

Program Prerequisites: None

Required Courses: Credits: 30

Students should select thirty (30) credits from the following courses:

+ CRP102AA	Concrete Formwork: Building Layout	1
+ CRP102AB	Concrete Formwork: Residential Footing Form	1
+ CRP102AC	Concrete Formwork: Footing Forms and Bolt Layout	1
+ CRP102AD	Concrete Formwork: Basic Wall Forms	1
+ CRP102AE	Concrete Formwork: Circular Wall Forms	1
+ CRP102AF	Concrete Formwork: Column Form	1
+ CRP102AG	Concrete Formwork: Spandrel Beam	1
+ CRP102AH	Concrete Formwork: Deck Forms and Shoring	1
+ CRP102AI	Concrete Formwork: Concrete Stair Forms	1
+ CRP102AJ	Concrete Formwork: Tilt-up Construction I	1
+ CRP102AK	Concrete Formwork: Tilt-up Construction II	1
+ CRP102AL	Concrete Formwork: Bridge Pier Column	1
+ CRP102AM	Concrete Formwork: Flatwork	1
+ CRP102AN	Concrete Formwork: Culverts, Headwall and Wing Walls	1
+ CRP102AO	Concrete Formwork: Concrete Wall Blockouts	1
+ CRP102AP	Concrete Formwork: Gang Forms	1
+ CRP102AR	Concrete Formwork: Retaining Wall Footing Form	1

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Carpentry**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **30**

Major Code: **5395**
 Initiator: **Anna Lopez**

CIPS Code: **46.02.01**
 Instructional Council: **Occupational Administrators (53)**

(CCL in Carpentry continued)

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

Proposed Program Title To: Construction Trades: Carpentry

+ CRP103AA	Framing: Basic Wall Framing	1
+ CRP103AB	Framing: Wall Layout, Plating and Detailing	1
+ CRP103AD	Framing: Basic Floor Joist	1
+ CRP103AE	Framing: Gable Roof	1
+ CRP103AF	Framing: Hip Roof	1
+ CRP103AG	Framing: Intersecting Roof	1
+ CRP103AI	Framing: Wood Stairs	1
+ CRP103AJ	Framing: Framing Square	1
+ CRP103AL	Framing: Advanced Framing Square Application	1
+ CRP103AM	Framing: Residential Layout	1
+ CRP104AC	Exterior Finish: Canopy	1
+ CRP104AE	Exterior Finish: Roof Coverings	1
+ CRP104AH	Exterior Finish: Commercial Display	1
+ CRP105AA	Interior Finish: Standard Door Installation	1
+ CRP105AC	Interior Finish: Running Trim	1
+ CRP105AG	Interior Finish: Door Hardware	1
+ CRP105AI	Interior Finish: Metal Partitions	1
+ CRP105AJ	Interior Finish: Soffit Panel	1
+ CRP106AA	Interior Systems: Metal Frame Walls	1
+ CRP106AB	Interior Systems: Dry Wall Applications	1
+ CRP106AH	Interior Systems: Dry Wall Estimation of Material	1
+ CRP106AK	Interior Systems: Suspended Lay-In Ceilings	1
+ CRP110AA	Introduction to Carpentry I: History and Tools	2
+ CRP110AB	Introduction to Carpentry II: OSHA Safety	2
+ CRP112AA	Technical Calculations for Carpenters I	2
+ CRP112AB	Technical Calculations for Carpenters II	2
+ CRP112AC	Advanced Calculations for Carpenters	2
+ CRP114AA	Blueprint Reading for Carpenters I	2
+ CRP114AB	Blueprint Reading for Carpenters II	2
+ CRP116AA	Concrete Formwork I	2
+ CRP116AB	Concrete Formwork II	2
+ CRP210AA	Basic Framing I	2
+ CRP210AB	Basic Framing II	2
+ CRP210AC	Commercial Framing I: Panelized Roof	2
+ CRP212AA	Scaffolding for Carpenters	2
+ CRP212AB	Level, Transit and Layout	2
+ CRP212AC	Rigging	2
+ CRP214AA	Interior Systems: Drywall	2
+ CRP214AC	Interior Finish: Door Installation and Hardware	2
+ CRP214AD	Cabinets and Tops	2

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Carpentry**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **30**

Major Code: **5395**
Initiator: **Anna Lopez**

CIPS Code: **46.02.01**
Instructional Council: **Occupational Administrators (53)**

(CCL in Carpentry continued)

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

Proposed Program Title To: Construction Trades: Carpentry

	FAC/GTC/MIT/ OSH106 Industrial Safety	2
+	WLD100 Basic Welding	2
	WLD101 Welding I	3
	WLD102 Welding II	3
	WLD201 Welding II	3

Restricted Electives: None

Free Electives: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Ironworking**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **64**

Major Code: **3436**
Initiator: **Anna Lopez**

CIPS Code: **48.05.09**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Ironworking
Proposed Total Program Credits To: 60-65

Description: The Associate in Applied Science (AAS) in **Construction Trades: Ironworking** degree is designed to provide journeyman ironworker with general education in the areas of communication, humanities, and social and behavioral sciences that develop leadership skills needed in the construction field. Graduates are qualified to move into supervisory, foreman, superintendent, and ownership positions within the Ironworking trade.

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:

Formal application and admission to the program is required by the Arizona Field Ironworkers Apprenticeship and Training Program: 950 East Elwood Phoenix, AZ 85040 (602) 276-6055.

Program Prerequisites: None

Required Courses: Credits: ~~39~~ **33**

BPC/CIS+++++	Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)	3
Certificate of Completion in Construction Trades: Ironworking (5436)		36 30

Restricted Electives: ~~None~~ **5**

Students should select five (5) credits, except courses used to satisfy Required Courses area, from the following courses:

BLT+++++	Any BLT Building Safety and Construction technology course(s)
BPC+++++	Any BPC Business Personal Computers course(s)
CAD+++++	Any CAD Computer Aided Drafting course(s)
CNS+++++	Any CNS Construction course(s)
GBS+++++	Any GBS General Business course(s)
IND+++++	Any IND Industry course(s)
IRW+++++	Any IRW Ironworking course(s)
MGT+++++	Any MGT Management course(s)
OSH+++++	Any OSH Occupational Safety and Health course(s)
SPA+++++	Any SPA Spanish course(s)
TDR+++++	Any TDR Trade related course(s)
WLD+++++	Any WLD Welding Technology course(s)

General Education: Credits: ~~25~~ **22-27**

CORE Credits: ~~45~~ **12-17**

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Ironworking**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **64**

Major Code: **3436**
 Initiator: **Anna Lopez**

CIPS Code: **48.05.09**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Ironworking continued)

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

Proposed Program Title To: Construction Trades: Ironworking
Proposed Total Program Credits To: 60-65

First-Year Composition

- + ENG101 First-Year Composition (3) AND
- + ENG102 First-Year Composition (3) OR
- + ENG111 Technical **and Professional** 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

- + **CRE101 Critical and Evaluative Reading I (3) OR**
- + CRE111 Critical Reading for Business and Industry (3) OR
 Equivalent by assessment **on District Placement Exam** 0-3

Mathematics

- + **MAT120 Intermediate Algebra (5) OR**
- + **MAT121 Intermediate Algebra (4) OR**
- + MAT122 Intermediate Algebra (3) OR
 Equivalent ~~by assessment.~~ **course or satisfactory completion
 of a higher level mathematics course** 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

- ~~PSY125 Leadership and Group Relations (3) OR~~
- ~~ECN100 Economics in American Society (3)~~ 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: 6/23/09

Proposal Development Type: OPM	Program Title: Ironworking
Award Type: CCL	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 33

Major Code: 5436	CIPS Code: 48.05.09
Initiator: Anna Lopez	Instructional Council: Occupational Administrator (53)

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

Proposed Program Title To: Construction Trades: Ironworking
Proposed Total Program Credits To: 30

Description: The Certificate of Completion (CCL) in **Construction Trades: Ironworking** program is designed to provide comprehensive coursework for Ironworking Apprentices to prepare them for employment in the construction industry. Training will cover all facets of ironworking including blueprint reading, structural steel erection, reinforcing and post-tensioning, rigging, architectural iron work, safety, light industrial construction and welding.

~~The associate degree program is designed to provide comprehensive coursework for Ironworking Apprentices to prepare them for employment in the construction industry. Training will cover all aspects of ironworking including blueprint reading, structural steel erection, reinforcing and post-tensioning, rigging, ornamental iron work, safety, light industrial construction and welding. In addition to the core requirements, students will elect ten credit hours from restricted electives, and will complete general education requirements.~~

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:

Formal application and admission to the program is required by the Arizona Field Ironworkers Apprenticeship and Training Program: 950 East Elwood Phoenix, AZ 85040 (602) 276-6055.

Program Prerequisites: None

Required Courses: Credits: ~~27~~ 30

Students should select ~~twenty-seven (27)~~ **thirty (30)** credits from the following courses:

+ IRW101	Ironworking I: Trade Science	3
+ IRW102	Ironworking II: Basics	3
IRW/PFT103	Science, Rigging, and Hoisting	6
IRW105	Ironworking III: History	3
+ IRW120	Structural Steel Erection I	3
+ IRW121	Structural Steel Erection II	3
+ IRW130	Reinforcing I: Rebar	3
+ IRW131	Reinforcing II: Post Tension	3
+ IRW150	Rigging I	3
+ IRW160	Architectural Ironworking I	3
+ IRW161	Architectural Ironworking II	3
+ IRW180	Light Industrial: Precast/Metal Buildings	3
+ FAC/GTC/MIT/OSH106	Industrial Safety	2
WLD101	Welding I	3
+ WLD201	Welding II	3
+ TDR/WLD202	Construction Welding III	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Ironworking**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **33**

Major Code: **5436**
Initiator: **Anna Lopez**

CIPS Code: **48.05.09**
Instructional Council: **Occupational Administrator (53)**

(CCL in Ironworking continued)

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

Proposed Program Title To: Construction Trades: Ironworking
Proposed Total Program Credits To: 30

Restricted Electives: ~~6~~ **None**

~~Students should select any course(s) for a total of 6 credits from the following prefixes.~~

- ~~— IND+++++ — Any IND Industry course(s)~~
- ~~— IRW+++++ — Any IRW Ironworking course(s)~~
- ~~— SPA+++++ — Any SPA Spanish course(s)~~
- ~~— TDR+++++ — Any TRD Trade Related course(s)~~
- ~~— WLD+++++ — Any WLD Welding course(s)~~

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Construction Trades: Millwright**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **67-68**

Major Code: **3440**
 Initiator: **Anna Lopez**

CIPS Code: **48.07.03**
 Instructional Council: **Occupational Administrators (53)**

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

Propose Total Program Credits To:60-65

Description: The Associate in Applied Science (AAS) **in Construction Trades: Millwright** degree program is designed to provide journeymen status to the apprentice and to develop a general educational background. Students choose from electives, which contribute, to communication and liberal arts concepts in addition to trade skills. The associate degree program is for those individuals who may wish to continue their educational and leadership skills.

Program Notes:

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

Admission Criteria: ~~None~~

Students are admitted to this program through the Southwest Carpenters Training Fund selection process.

Program Prerequisites: **None**

~~Admission to the program by the Arizona Iron Worker's Joint Apprenticeship and Training Committee.~~

Required Courses: Credits: 43 **33**

Certificate of Completion in Construction Trades: Millwright (5415)	30
+ BPC/CIS+++++ Any BPC/CIS Business-Personal Computers or Computer Information Systems course(s)	3
+ MWR101 Construction Millwrighting	5
+ MWR102 Machinery Preparation and Installation	5
+ MWR103 Machinery Installation and Erection I	5
+ MWR104 Machinery Installation and Erection II	5
+ MWR201 Optics and Optical Tooling	5
+ MWR202 Millwright Bulk and Unit Conveying	5
+ MWR203 Specialty Machinery I	5
+ MWR204 Specialty Machinery II	5
WLD101 Welding I	3

Restricted Electives: 5

Students should select five (5) credits, except courses used to satisfy Required Courses area, from the following courses:

- BLT+++++** Any **BLT Building Safety and Construction technology** course(s)
- BPC+++++** Any **BPC Business Personal Computers** course(s)
- CAD+++++** Any **CAD Computer Aided Drafting** course(s)
- CNS+++++** Any **CNS Construction** course(s)
- GBS+++++** Any **GBS General Business** course(s)
- IND+++++** Any **IND Industry** course(s)
- MGT+++++** Any **MGT Management** course(s)
- MWR+++++** Any **MWR Millwright: Apprenticeship** course(s)
- OSH+++++** Any **OSH Occupational Safety and Health** course(s)

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Construction Trades: Millwright**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **67-68**

Major Code: **3440**
 Initiator: **Anna Lopez**

CIPS Code: **48.07.03**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Construction Trades: Millwright continued)

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

Propose Total Program Credits To:60-65

- SPA+++++** Any SPA Spanish course(s)
- TDR+++++** Any TDR Trade related course(s)
- WLD+++++** Any WLD Welding Technology course(s)

General Education: Credits: ~~24-25~~ **22-27**

CORE Credits: ~~45~~ **12-17**

First-Year Composition

- + ENG101 First-Year Composition (3) AND
- + ENG102 First-Year Composition (3) OR
- + ENG111 Technical **and Professional** 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

- + **CRE101** Critical and Evaluative Reading I (3) OR
- + CRE111 Critical Reading for Business and Industry (3) OR
 Equivalent by assessment **on District Placement Exam** 0-3

Mathematics

- + **MAT120** Intermediate Algebra (5) OR
- + **MAT121** Intermediate Algebra (4) OR
- + MAT122 Intermediate Algebra OR
~~Equivalent by assessment.~~ **course or satisfactory completion
 of a higher level mathematics course** 3-5

DISTRIBUTION Credits: ~~9~~-10

Humanities and Fine Arts

Any approved General Education course from the Humanities and Fine Arts area. 2-3

Natural Sciences

Any approved General Education course from the Natural Sciences area. 4

Social and Behavioral Sciences

Any approved general education course from the Social and Behavioral Sciences area. 3

- ~~PSY125 Leadership and Group Dynamics (3) OR~~
- ~~ECN100 Economics in American Society (3)~~ 3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Millwright**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **43**

Major Code: **5415**
Initiator: **Anna Lopez**

CIPS Code: **48.07.99**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Millwright
Proposed Total Program Credits To: 30

Description: The Certificate of Completion (CCL) **in Construction Trades: Millwright** program is designed to provide knowledge and skills in the millwrighting trade. Coursework includes ~~eight~~ courses in millwrighting and ~~one~~ in welding. Specifically, the courses train apprentices to safely handle both shop and field jobs, to lay out and erect industrial machinery, to operate welding equipment, and to design, install, and operate systems inherent to the millwrighting trade. Upon the completion of this apprenticeship program, students are considered journey men in the millwrighting trade.

~~The associate degree program is designed to provide journeymen status to the apprentice and to develop a general educational background. Students choose from electives, which contribute, to communication and liberal arts concepts in addition to trade skills. The associate degree program is for those individuals who may wish to continue their educational and leadership skills.~~

Program Notes:

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

Admission Criteria:

Admission to the program by the Arizona Millwright Joint Apprenticeship and Training Committee.

Program Prerequisites: None

Required Courses: Credits: 43 30

Students should select thirty (30) credits from the following courses:

+ MWR101	Construction Millwrighting	5
+ MWR102	Machinery Preparation and Installation	5
+ MWR103	Machinery Installation and Erection I	5
+ MWR104	Machinery Installation and Erection II	5
+ MWR201	Optics and Optical Tooling	5
+ MWR202	Millwright Bulk and Unit Conveying	5
+ MWR203	Specialty Machinery I	5
+ MWR204	Specialty Machinery II	5
WLD100	Basic Welding	2
WLD101	Welding I	3
WLD201	Welding II	3
TDR/WLD202	Construction Welding III	3

Restricted Electives: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Construction Trades: Painting**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **70-71**

Major Code: **3444**
 Initiator: **Anna Lopez**

CIPS Code: **46.04.08**
 Instructional Council: **Occupational Administrators (53)**

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

Proposed Total Program Credits To: 67-71

Description: The Associate in Applied Science (AAS) **in Construction Trades: Painting** degree ~~program~~ is designed to also provide journeyman status to the apprentice. In addition to this status within the trade, the associate degree program helps to develop a general education background. Students take courses, which enhance communication and liberal arts concepts in addition to trade skills. The associate degree program is for those individuals who may wish to continue their education and leadership skills.

Program Notes:

+ indicates course has prerequisites and/or corequisites.

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

Admission Criteria: ~~None~~

Students are admitted to this program through: Phoenix Painters & Drywall Joint Apprenticeship & Training Committee selection process.

Program Prerequisites: None

Required Courses: Credits: 27

BPC/CIS+++++	Any BPC/CIS Business-Personal Computers or Computer Information Systems course	3
+ PNT101	Basic Painting	4
+ PNT102	Painting and Decorating	4
+ PNT103	Color Mixing/Wood Finishing	4
+ PNT104	Special Decorative Finishes/Advanced Ladders and Scaffolding	4
+ PNT201	Basic Blueprint/Blasting/Drywall Taping	4
+ PNT202	Spray Painting/Coatings, Coverings	4

Restricted Electives: Credits: 13

ACC111	Accounting Principles I	3
BLT263	Building Codes	3
CPD102AS	Conflict Resolution	2
DFT126	Building Trades Blueprint Reading	3
GBS151	Introduction to Business	3
GBS233	Business Communication	3
MGT229	Management and Leadership I	3
MGT251	Human Relations in Business	3

Free Electives: Credits: 6

General Education: Credits: ~~24-25~~ **21-25**

CORE Credits: **12-15**

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Construction Trades: Painting**
 Initiating College: **GWCC**
 Program Availability: **College Specific**
 Total Credits: **70-71**

Major Code: **3444**
 Initiator: **Anna Lopez**

CIPS Code: **46.04.08**
 Instructional Council: **Occupational Administrators (53)**

(AAS in Construction Trades: Painting continued)

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

Proposed Total Program Credits To: 67-71

First-Year Composition

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

Oral Communication

- COM110 Interpersonal Communication 3

Critical Reading

- + CRE101 Critical and Evaluative Reading I (3) OR
 Equivalent by assessment **on District Placement Exam** 0-3

Mathematics

- + MAT122 Intermediate Algebra (3) OR
~~Equivalent by assessment~~ **course or satisfactory completion
 of a higher level mathematics course** 3

DISTRIBUTION Credits: 9-10

Humanities and Fine Arts

- Any approved General Education course from the Humanities and Fine Arts area. 2-3

Social and Behavioral Sciences

- + PSY101 Introduction to Psychology (3) OR
- + ECN211 Macroeconomic Principles (3) 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: 6/23/09

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

Program Title: **Painting**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **24**

Major Code: **5407**
Initiator: **Anna Lopez**

CIPS Code: **46.04.08**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Painting

Description: The Certificate of Completion (CCL) program in **Construction Trades: Painting** is designed to provide knowledge and skills in the painting trade. Course work includes ~~six~~ courses in painting. Specifically, the courses train apprentices to paint from ladders and scaffolds, prepare and paint various types of surfaces, and handle all types of painting equipment. Upon completion of this program, apprentices are considered to be journeymen in the painting trade.

Program Notes:

+ indicates course has prerequisites and/or corequisites.

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

Admission Criteria: **Students are admitted to this program through: Phoenix Painters & Drywall Joint Apprenticeship & Training Committee selection process.**

Program Prerequisites: None

Required Courses: Credits: 24

+ PNT101	Basic Painting	4
+ PNT102	Painting and Decorating	4
+ PNT103	Color Mixing/Wood Finishing	4
+ PNT104	Special Decorative Finishes/Advanced Ladders and Scaffolding	4
+ PNT201	Basic Blueprint/Blasting/Drywall Taping	4
+ PNT202	Spray Painting/Coatings, Coverings	4

Restricted Electives: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM Award Type: AAS Effective First Year Term: 2009 Fall Overall G.P.A.: 2.00	Program Title: Construction Trades: Sheet Metal Initiating College: GWCC Program Availability: College Specific Total Credits: 74-75
Major Code: 3538 Initiator: Anna Lopez	CIPS Code: 48.05.06 Instructional Council: Occupational Administrators (53)

(AAS in Construction Trades: Sheet Metal continued)

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

Proposed Total Program Credits To: 60-65

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)	
COM110	Interpersonal Communication (3) OR	
<hr/>		
COM110AA	Interpersonal Communication Part I (1) AND	
COM110AB	Interpersonal Communication Part II (1) AND	
COM110AC	Interpersonal Communication Part III (1)	3
+ COM230	Small Group Communication (3)	3

Critical Reading

+ CRE101	Critical and Evaluative Reading I (3) OR	
+ CRE111	Critical Reading for Business and Industry (3) OR	
	Equivalent by assessment on District Placement Exam	0-3

Mathematics

+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Equivalent course or by assessment OR	
	Satisfactory completion of a higher-level mathematics course	3-5

DISTRIBUTION Credits: 9-10

Humanities and Fine Arts

Any approved General Education course in the Humanities and Fine Arts area. 2-3

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

~~Certificates may contain additional course requirements.~~

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Construction Management
Award Type: CCL	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 18
Major Code: 5595	CIPS Code: 46.04.99
Initiator: Anna Lopez	Instructional Council: Occupational Administrators (53)

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

Proposed Program Title To: Construction Trades: Construction Management

Description: The **Certificate of Completion (CCL) in Construction Trades: Construction Management** program is designed to train and upgrade skills of people working in the construction industry as foremen, supervisors, construction business owners, and construction superintendents. Training is included in the areas of leadership and motivation, oral and written communications, problem solving, contract law and documents, planning and scheduling, cost awareness and production control, project safety and improvement. The skills acquired in this program can be applied to work in highway departments, engineering and architectural firms, and material sales firms, as well as the construction industry.

Program Notes:

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

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: 12

BPC110	Computer Usage and Applications	3
IND135	Leadership in Construction	1
IND136	Communications in Construction	1
IND137	Problem Solving in Construction	1
IND138	Construction Project Management	1
IND140	Construction Planning and Scheduling	1
IND141	Cost Control in Construction	1
IND142	Construction Safety/Loss Prevention	1
IND143	Construction Law	1
IND144	Improving Construction Productivity	1

Restricted Electives: Credits: 6

Students should select any 3-credit hour course for a total of 6 credits from the following prefixes.

ACC+++++	Any ACC Accounting course(s)	3
ECN+++++	Any ECN Economics course(s)	3
GBS+++++	Any GBS General Business course(s)	3
MGT+++++	Any MGT Management course(s)	3
PSY+++++	Any PSY Psychology course(s)	3
SOC+++++	Any SOC Sociology course(s)	3
SPA+++++	Any SPA Spanish course(s)	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Networking Technology: Cisco
Award Type: AAS	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: Shared by CGCC, EMCC, GCC, GWCC
Overall G.P.A.: 2.00	Total Credits: 60-64

Major Code: 3816	CIPS Code: 11.09.01
Initiator: Steve May	Instructional Council: Computer Information Systems (12)

(AAS in Networking: Cisco continued)

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

	BPC/CIS121AB MS-DOS Operating System I Microsoft Command Line Operations	1	
	CIS102	Interpersonal and Customer Service Skills for IT Professionals	1
	CIS110	Home Entertainment and Computer Networking	3
	ELT100	Survey of Electronics	3
	BPC/CIS224	Project Management Microsoft Project for Windows	3
+	CNT145	Voice and Data Cabling	4
+	CNT175	Cisco Certified Network Associate Security	4
+	CNT181	Cisco Securing IOS Networks	4
+	CNT182	Cisco Secure PIX Firewall Configuration	3
+	CNT183	Cisco Secure Virtual Private Network Configuration	3
+	CNT184	Cisco Secure Intrusion Detection Systems	4
+	CNT185	Cisco Network Security	4
+	CNT186	Fundamentals of Wireless LANs	4
+	CNT187	Cisco SAFE Implementation	3
+	CNT190	Cisco Network Design	3
++	CNT2++++	Any 200 level course with a CNT Prefix	1-4
+	BPC270	Micro Computer Maintenance II: A+ Technician Prep	3
+	BPC273	Advanced Server Computer Maintenance: Server+ Prep	3
+	CIS127DL	Linux Utilities	3
+	CIS238DL	Linux System Administration	3
+	CIS239DL	Linux Shell Scripting	3
+	CIS240DL	Linux Network Administration	3
+	CIS241DL	Apache Web Server Administration (Linux/Unix)	3
+	CIS271DL	Linux Security	3
+	CIS274DL	Linux Enterprise Network Security	3
+	MST152	Microsoft Windows Server (4) OR	3
+	MST152DA	Microsoft Windows 2000 Server (4) OR	
+	MST152DB	Microsoft Windows 2003 Server (4)	4
+	MST155	Implementing Windows Network Infrastructure	3
+	MST157	Implementing Windows Directory Services	3
+	MST232	Managing a Windows Network Environment	3
+	CIS250	Management of Information Systems	3
	CIS280	Current Topics in Computing	3
+	BPC/CIS290AA	Computer Information Systems Internship (1) OR	
+	BPC/CIS290AB	Computer Information Systems Internship (2) OR	
+	BPC/CIS290AC	Computer Information Systems Internship (3)	1-3

Free Electives: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Networking Technology: Cisco**
Initiating College: **GWCC**
Program Availability: **Shared by CGCC, EMCC, GCC, GWCC**
Total Credits: **60-64**

Major Code: **3816**
Initiator: **Steve May**

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

(AAS in Networking: Cisco continued)

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

General Education: Credits: 25

CORE: Credits: 15

First-Year Composition

+ ENG101	First-Year Composition (3) OR	
+ ENG107	First-Year Composition for ESL (3) AND	
+ ENG102	First-Year Composition (3) OR	
+ ENG108	First-Year Composition for ESL (3) OR	
+ ENG111	Technical and Professional Writing	6

Oral Communication

Any approved general education course in the Communication area 3

Critical Reading

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

Mathematics

Any approved general education course in the Mathematics area 3

DISTRIBUTION: Credits: 10

Humanities and Fine Arts

Any approved general education course in the Humanities and Fine Arts area 3

Social and Behavioral Sciences

Any approved general education course in the Social and Behavioral Sciences area 3

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: 6/23/09

Proposal Development Type: OPM	Program Title: Electroneurodiagnostics
Award Type: CCL	Initiating College: GWCC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 22

Major Code: 5378	CIPS Code: 51.09.03
Initiator: Sharon Luczu	Instructional Council: Allied Health (51)

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

Description: The Certificate of Completion (CCL) in Electroneurodiagnostics program is achievable within a 12-month period. The curriculum is designed to prepare students to use electrical techniques to evaluate activity of the brain and spinal cord and to perform electroencephalograms (EEG's) in hospitals and other healthcare facilities. The program focuses on the general area of biomedical electronics with specific instruction in the theory and use of EEG instruments and factors influencing testing outcomes and reporting.

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:

1. Formal application and admission to the program is required.
2. Current CPR for Health Care Provider card.
3. Immunizations as required.
4. High School Diploma or equivalent.
5. Documentation of successful completion of prerequisites.
6. Drug test required prior to clinical experience.

Program Prerequisites: Credits: 9.5-15.0

Students must select Option 1 or Option 2.

Option 1:

BIO160	Introduction to Human Anatomy and Physiology	4
HCC/EMT/RES109	CPR for Health Care Provider	0.5
HCC130	Fundamentals in Health Care Delivery	3
HCC146	Common Medical Terminology for Health Care Workers	2
+ HCC200	Basic Client Care for Allied Health	0.5
+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT102	Mathematical Concepts/Applications (3)	3-5

Option 2:

Two years of documented work experience in a health care field AND

BIO160	Introduction to Human Anatomy and Physiology	4
HCC146	Common Medical Terminology for Health Care Workers	2
HCC/EMT/RES109	CPR for Health Care Provider	0.5
+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT102	Mathematical Concepts/Applications (3)	3-5

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Electroneurodiagnostics**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **22**

Major Code: **5378**
Initiator: **Sharon Luczu**

CIPS Code: **51.09.03**
Instructional Council: **Allied Health (51)**

(CCL in Electroneurodiagnostics continued)

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

Required Courses: Credits: ~~22~~ 23

+ EEG116	Basic Electroneurodiagnostic Skills	2
+ EEG130	Introduction to EEG	2
EEG200	Intermediate EEG Skills- Clinical Rotation Lab	3
+ EEG201	Intermediate EEG	3
+ EEG205	Applied Evoked Potentials	2
+ EEG206	Advanced EEG	2 3
+ EEG207	Advanced EEG Skills I	1
+ EEG208	Advanced EEG Skills II	1
+ EEG209	Advanced EEG Skills III	1
+ EEG211	Advanced EEG Skills-Clinical Lab	3
+ EEG210	Applied Neurophysiology	3
HCE113	Biomedical Electronics I	2

Restricted Elective: None

Free Electives: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Roofing**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **25**

Major Code: **5411**
Initiator: **Anna Lopez**

CIPS Code: **46.04.10**
Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Construction Trades: Roofing

Description: This **The Certificate of Completion (CCL) in Construction Trades: Roofing** program is designed to provide knowledge and skills in the roofing trade. Specifically, the courses train apprentices to handle tools, equipment and materials necessary to apply roofs. Apprentices are trained in various application methods and are also trained to troubleshoot and maintain roofs. At the end of their program, apprentices are considered to be journeymen in the roofing trade.

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~~

Admission to the program by the Joint Apprenticeship Committee of the United Union of Roofers, Waterproofers and Allied Workers.

Program Prerequisites: ~~None~~

Required Courses: Credits: 25

+ ROF101	Built-up Roofing I	5
+ ROF102	Built-up Roofing II	5
+ ROF103	Elasto-Plastic Roof Systems	5
+ ROF104	Steep Roofing	5
+ ROF105	Single Ply Roofing	5

Restricted Elective: ~~None~~

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Surveying Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 61

Major Code: 3011	CIPS Code: 15.11.02
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

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

Description: The Associate in Applied Science (AAS) in Surveying Technology is a program of study designed to provide students with skills for surveying positions of responsible charge in the field or office of local municipalities or consulting firms. Students in this program receive education and training that enables them to perform multiple surveying tasks related to boundaries, construction, and mapping. A Certificate of Completion (**CCL**) is also available.

Program graduates are prepared for entry-level positions as survey instrument persons or survey technicians.

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.
 Students planning to transfer to a four-year college or university should contact ~~the Industrial Technology faculty~~ or the **Advisement Transfer** Center for specific information on transfer requirements.

Admission Criteria: None.

Program Prerequisites: Credits: 7- 10

ARC121	Introduction to Architectural Drafting: Manual	3
BPC110 CIS105	Computer Usage and Applications (3) OR Survey of Computer Information Systems (3)	3
+ MAT151	College Algebra/Functions (4) OR Equivalent OR A satisfactory score on the District placement exam.	4
+ GBS220	Quantitative Methods in Business	3

Required Courses: 39 Credits

DFT124	Introduction to Architectural Drafting	3
+ DFT252 ACAD100	Computer-Aided Drafting I: AutoCAD Fundamentals of 2D AutoCAD	3
+ DFT134 CAD186	Civil Drafting I Site Development I	3
+ CET101	Surveying I	3
+ CET102	Surveying II	3
+ CET150	Introduction to Geodesy and Map Projection	3
+ CET201	Boundary Control and Legal Principles I	3
+ CET202	Boundary Control and Legal Principles II	3
+ CET205	Photogrammetry	3
+ CET250	Public Land Surveying System	3
+ CET257	Route and Construction Surveying	3
+ GBS220	Quantitative Methods in Business	3
+ GBS221	Business Statistics	3
+ MAT182	Plane Trigonometry	3

Restricted Electives: None.

Free Electives: None.

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Surveying Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 61

Major Code: 3011	CIPS Code: 15.11.02
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

(AAS in Survey Technology continued)

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

General Education: Credits: 22

CORE: Credits: 12

First-Year Composition

+ Any approved general education courses 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 OR
 Equivalent as indicated by assessment. 3

Mathematics

Met by MAT182 in Required Courses area. 0

DISTRIBUTION: Credits: 10

Humanities and Fine Arts

~~Any approved general education course in the Humanities and Fine Arts area.~~
CNS100 Construction and Culture 3

Social and Behavioral Sciences

Any approved general education course in the Social and Behavioral Sciences area. 3

Natural Sciences

+ PHY101 Introduction to Physics 4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Surveying Technology
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 39

Major Code: 5203	CIPS Code: 15.11.02
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

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

Description: The Certificate of Completion (CCL) in Surveying Technology is a program of study designed to provide students with skills for surveying positions of responsible charge in the field or office of local municipalities or consulting firms. Students in this program receive education and training that enables them to perform multiple surveying tasks related to boundaries, construction, and mapping. An Associate in Applied Science (AAS) degree is also available. Program graduates are prepared for entry-level positions as survey instrument persons or survey technicians.

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.
 Students planning to transfer to a four-year college or university should contact the Industrial Technology faculty or the Advisement Transfer Center for specific information on transfer requirements.

Admission Criteria: None.

Program Prerequisites: Credits: 7- 10

ARC121	Introduction to Architectural Drafting: Manual	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
+ MAT151	College Algebra/Functions (4) OR	
Equivalent OR		
	A satisfactory score on the District placement exam.	4
+ GBS220	Quantative Methods in Business	3

Required Courses: 39 Credits

DFT124	Introduction to Architectural Drafting	3
+ DFT252 ACAD100	Computer Aided Drafting I: AutoCAD Fundamentals of 2D AutoCAD	3
+ DFT134 CAD186	Civil Drafting I Site Development I	3
+ CET101	Surveying I	3
+ CET102	Surveying II	3
+ CET150	Introduction to Geodesy and Map Projection	3
+ CET201	Boundary Control and Legal Principles I	3
+ CET202	Boundary Control and Legal Principles II	3
+ CET205	Photogrammetry	3
+ CET250	Public Land Surveying System	3
+ CET257	Route and Construction Surveying	3
+ GBS220	Quantitative Methods in Business	3
+ GBS221	Business Statistics	3
+ MAT182	Plane Trigonometry	3

Restricted Electives: None.

Free Electives: None.

General Education: None.

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Civil Engineering Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 70

Major Code: 3308	CIPS Code: 15.02.01
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

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

Proposed Total Program Credits To: 64

Description: The Associate in Applied Science (AAS) in Civil Engineering Technology is a program of study which provides a diverse knowledge of science, mathematics, surveying, construction methods and materials, and computer-aided drafting. Students in this program receive training that enables them to use CAD software to draw construction plans and prepare specifications, to estimate materials and costs, to use the transit, level, and other surveying instruments, to do construction and route staking, to prepare topographic maps, to inspect jobs, and to supervise construction. Program graduates are prepared for entry-level positions as civil engineering technicians, civil drafters, inspectors, surveyor's aides, traffic engineering technicians, and highway design technicians. 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 required within the program.
 Students planning to transfer to a four-year college or university should contact ~~the Industrial Technology faculty~~ or the **Advisement Transfer Center** for specific information on transfer requirements.

Admission Criteria: None.

Program Prerequisites: Credits: ~~14-18~~ 12-16

ARC121	Introduction to Architectural Drafting: Manual	3
BPC110 CIS105	Computer Usage and Applications (3) OR Survey of Computer Information Systems (3)	3
DFT110	Technical Drafting I (3) OR	
DFT121	Introduction to Architectural Drafting (3) OR	
	Permission of Department Chairperson	3
+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Equivalent course OR	
	Satisfactory score on the District placement exam	3-5
+ MAT150	College Algebra/Functions (5) OR	
+ MAT151	College Algebra/Functions (4) OR	
+ MAT152	College Algebra/Functions (3) OR	
	Equivalent course OR	
	Satisfactory score on District placement exam	3-5
+ MAT187	Precalculus (5) OR	
	Satisfactory score on District placement exam	5

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Civil Engineering Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 70

Major Code: 3308	CIPS Code: 15.02.01
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

(AAS in Civil Engineering Technology continued)

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

Proposed Total Program Credits To: 64

Required Courses: Credits: ~~48~~ 42

+ BLT126	Soil Mechanics	3
CAD100	Fundamentals of 2D AutoCAD	3
+ CAD186	Site Development I	3
+ CET101	Surveying I	3
+ CET102	Surveying II	3
CET105	Highway Technology	3
CET171	Construction Contracts (3) OR	
GTC121	Construction Estimating I (3)	3
+ CET201	Boundary Control and Legal Principles I	3
+ CET202	Boundary Control and Legal Principles II	3
CET241	Fundamentals of Traffic Engineering	3
CNS175	Working Drawing Analysis: Blueprint Reading	3
CNS180	Building Construction Methods, Materials and Equipment	3
+ CET241 CNS260	Strength of Materials	3
+ MAT182	Plane Trigonometry	3
CET103	Construction Methods I	3
CIS105	Survey of Computer Information systems	3
DFT121	Introduction to Architectural Drafting	3
DFT126	Building Trades Blueprint Reading	3
+ DFT131	Civil Drafting I	3
+ DFT252AA	Computer Aided Drafting I: AutoCAD	3

Restricted Electives: None.

Free Electives: None.

General Education Requirements: Credits: 22

CORE: Credits: 12

First-Year Composition:

+ Any approved general education courses in the First-Year Composition area. 6

Oral Communication:

Any approved general education course in the Oral Communication area. 3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Civil Engineering Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 70

Major Code: 3308	CIPS Code: 15.02.01
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

(AAS in Civil Engineering Technology continued)

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

Proposed Total Program Credits To: 64

Critical Reading:

+ Any approved general education course in the Critical Reading area OR
Equivalent as indicated by assessment. 3

Mathematics:

+ Met by MAT182 in Required Courses area. 0

DISTRIBUTION: Credits: 10

Humanities and Fine Arts:

~~Any approved general education course in the Humanities and Fine Arts area.~~
CNS101 Construction and Culture 3

Social and Behavioral Sciences:

Any approved general education course in the Social and Behavioral Sciences area. 3

Natural Sciences:

+ PHY101 Introduction to Physics 4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Civil Engineering Technology
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 48

Major Code: 5297	CIPS Code: 15.02.01
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

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

Proposed Total Program Credits To: 42

Description: The Certificate of Completion (CCL) in Civil Engineering Technology is a program of study which provides a diverse knowledge of science, mathematics, surveying, construction methods and materials, and computer-aided drafting. Students in this program receive training that enables them to use CAD software to draw construction plans and prepare specifications, to estimate materials and costs, to use the transit, level, and other surveying instruments, to do construction and route staking, to prepare topographic maps, to inspect jobs, and to supervise construction. Program graduates are prepared for entry-level positions as civil engineering technicians, civil drafters, inspectors, surveyor's aides, traffic engineering technicians, and highway design technicians. An Associate in Applied Science (AAS) degree is also available.

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.
 Students planning to transfer to a four-year college or university should contact ~~the Industrial Technology faculty~~ or the **Advisement Transfer Center** for specific information on transfer requirements.

Admission Criteria: None.

Program Prerequisites: Credits: ~~14-18~~ 12-16

ARC121	Introduction to Architectural Drafting: Manual	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
DFT110	Technical Drafting I (3) OR	
DFT121	Introduction to Architectural Drafting (3) OR	
Permission of Department Chairperson		3
+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
Equivalent course OR		
	Satisfactory score on the District placement exam	3-5
+ MAT150	College Algebra/Functions (5) OR	
+ MAT151	College Algebra/Functions (4) OR	
+ MAT152	College Algebra/Functions (3) OR	
Equivalent course OR		
	Satisfactory score on District placement exam	3-5
+ MAT187	Precalculus (5) OR	
	Satisfactory score on District placement exam	5

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Civil Engineering Technology
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 48

Major Code: 5297	CIPS Code: 15.02.01
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

(CCL in Civil Engineering Technology continued)

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

Proposed Total Program Credits To: 42

Required Courses: Credits: ~~48~~ 42

+ BLT126	Soil Mechanics	3
CAD100	Fundamentals of 2D AutoCAD	3
+ CAD186	Site Development I	3
+ CET101	Surveying I	3
+ CET102	Surveying II	3
CET105	Highway Technology	3
CET171	Construction Contracts (3) OR	
GTC121	Construction Estimating I (3)	3
+ CET201	Boundary Control and Legal Principles I	3
+ CET202	Boundary Control and Legal Principles II	3
CET241	Fundamentals of Traffic Engineering	3
CNS175	Working Drawing Analysis: Blueprint Reading	3
CNS180	Building Construction Methods, Materials and Equipment	3
+ CET244 CNS260	Strength of Materials	3
+ MAT182	Plane Trigonometry	3
CET103	Construction Methods I	3
CIS105	Survey of Computer Information systems	3
DFT121	Introduction to Architectural Drafting	3
DFT126	Building Trades Blueprint Reading	3
+ DFT131	Civil Drafting I	3
+ DFT252AA	Computer Aided Drafting I: AutoCAD	3

Restricted Electives: None.

Free Electives: None.

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: Paralegal Studies
Initiating College: PC
Program Availability: College Specific
Total Credits: 64

Major Code: 3384
Initiator: Scott Hauert

CIPS Code: 22.03.02
Instructional Council: Administration of Justice Studies (01)

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

Description: The Paralegal Studies Program prepares students for entry-level employment in law offices. A paralegal is qualified by education, training, or work experience to work for a law office, corporation, governmental agency, or other entity, performing specifically delegated substantive legal work for which a lawyer is responsible. Paralegals are also referred to as Legal Assistants in some legal settings. Except as specifically authorized by the Supreme Court of Arizona, persons not admitted to the State Bar of Arizona are prohibited from practicing law. The curriculum provides students with practical legal skills enabling them to draft legal documents with minimum supervision. Students also are familiarized with fundamental concepts of substantive areas such as torts and business law. In addition, emphasis is placed on the development of effective written and oral communication skills, team work, critical thinking skills, computer proficiency, and legal research techniques. Legal theory and related practical applications are integrated throughout the program. Students also learn how to manage practical ethical dilemmas commonly encountered as working paralegals, including learning how to avoid the unauthorized practice of law by non-lawyers. Those students with no prior law-related experience are strongly encouraged to participate in the internship program to enhance their chances of securing employment upon graduation. Students enrolled in the Paralegal Studies Program may earn a Certificate of Completion (CCL) or an Associate in Applied Science (AAS) degree. A Verification of Eligibility form is required to be officially accepted to the program.

The Paralegal Studies Program is approved by the American Bar Association (ABA), Standing Committee on Paralegals, (321 N. Clark St., Mail Stop 19.1, Chicago, IL 60610-4714).

Program Notes:

+ indicates course has prerequisites and/or corequisites. Equivalent paralegal courses, as determined by the Paralegal Studies Program Director or Legal Studies Department Chair, taken at other institutions, will be accepted in transfer if taken at a regionally accredited institution, within a Paralegal Program that was approved by the American Bar Association (ABA) at the time the courses were completed, and that were completed with a grade of "B" or higher within ~~(8) eight~~ **six (6)** years of the date of admission or readmission to the Paralegal Studies Program; a maximum of ~~(9) nine~~ **six (6)** semester hours of **qualifying** coursework can be transferred and applied to paralegal (LAS) **Restricted Elective** courses at Phoenix College. Students must complete a minimum of ~~18~~ **24** credits in legal specialty courses as defined by the ABA. Paralegal Studies Courses required by this program are not applicable if taken more than ~~eight (8)~~ **six (6)** years prior to admission or readmission to the Paralegal Studies Program. Consult with the Paralegal Studies Program Advisor for complete information.

Admission Criteria:

Students wishing to enroll in the Paralegal Studies Program must complete a Verification of Eligibility form to be officially accepted in the program. Contact a Paralegal Studies advisor.

High school diploma or GED equivalency.
AND

Must have current English and Reading course placement test reflecting eligibility for:

- + ENG101 First-Year Composition OR
- + ENG107 First-Year Composition for ESL AND
- CRE101 Critical and Evaluative Reading I

OR

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Paralegal Studies
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 64
Major Code: 3384	CIPS Code: 22.03.02
Initiator: Scott Hauert	Instructional Council: Administration of Justice Studies (01)

(AAS in Paralegal Studies continued)

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

Completion of ENG101 First Year Composition OR
 equivalent course AND
 + CRE101 Critical and Evaluative Reading I with a grade of "C" or better OR
 Equivalent as indicated by assessment.

OR

Permission of Department Chair or Program Director.

Program Prerequisites: Credits: 3

BPC110 Computer Usage and Applications (3) OR
 Equivalent OR
 Permission of department chair or program director.

Required Courses: Credits: 27

Students must earn a grade of "C" or better in all courses in the Required Courses area.
 Students must complete a minimum of ~~18~~ **24** credits in legal specialty courses as defined by the ABA
 from the list that follows:

LAS101	Introduction to Law	3
+ LAS109	Legal Procedures I Civil Procedures I	3
+ LAS110	Legal Procedures II Civil Procedures II	3
+ LAS131	Legal Writing I	3
+ LAS203	Ethics and Professional Practice	3
+ LAS204	Business Law for Paralegals Contract Law	3
+ LAS211	Legal Research	3
+ LAS212	Insurance and Tort Law	3
+ LAS229	Computerized Law Office and Litigation Technologies Support	3

Restricted Electives: Credits: 6

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

LAS100	The Paralegal Profession	3
+ LAS115	Criminal Trial Procedure	3
+ LAS208	Probate	3
+ LAS213	Employee Law for Paralegals Employment Law	3
+ LAS214	Law of Business Organizations	3
+ LAS216	Real Estate Transactions	3
+ LAS217	Family Law	3
+ LAS218	Administrative Law	3
+ LAS220	Paralegal Internship Seminar	1
+ LAS221AA	Paralegal Internship (1) OR	
+ LAS221AB	Paralegal Internship (2) OR	
+ LAS221AC	Paralegal Internship (3)	1-3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: Paralegal Studies
Initiating College: PC
Program Availability: College Specific
Total Credits: 64

Major Code: 3384
Initiator: Scott Hauert

CIPS Code: 22.03.02
Instructional Council: Administration of Justice Studies (01)

(AAS in Paralegal Studies continued)

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

+ LAS225	Legal Research, Analysis, and Writing	3
+ LAS237	Legal Interviewing, Investigation, and Report Writing	3
+ LAS261	Bankruptcy	3

Free Electives: Credits: 6

General Education: Credits: 25

CORE: Credits: 15

First Year Composition:

Any approved General Education courses in the First Year Composition area. 6

Oral Communication:

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

Critical Reading:

CRE101 Critical and Evaluative Reading I OR
Equivalent as indicated by assessment. 3

Mathematics:

Any approved General Education course in the Mathematics area. 3

DISTRIBUTION: Credits: 10

Humanities and Fine Arts:

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

Social and Behavioral Sciences:

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

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: 6/23/09

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

Program Title: Paralegal Studies
Initiating College: PC
Program Availability: College Specific
Total Credits: 33

Major Code: 5384
Initiator: Scott Hauert

CIPS Code: 22.03.02
Instructional Council: Administration of Justice Studies (01)

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

Description: The Paralegal Studies Program prepares students for entry-level employment in law offices. A paralegal is qualified by education, training, or work experience to work for a law office, corporation, governmental agency, or other entity, performing specifically delegated substantive legal work for which a lawyer is responsible. Paralegals are also referred to as Legal Assistants in some legal settings. Except as specifically authorized by the Supreme Court of Arizona, persons not admitted to the State Bar of Arizona are prohibited from practicing law. The curriculum provides students with practical legal skills enabling them to draft legal documents with minimum supervision. Students also are familiarized with fundamental concepts of substantive areas such as torts and business law. In addition, emphasis is placed on the development of effective written and oral communication skills, team work, critical thinking skills, computer proficiency, and legal research techniques. Legal theory and related practical applications are integrated throughout the program. Students also learn how to manage practical ethical dilemmas commonly encountered as working paralegals, including learning how to avoid the unauthorized practice of law by non-lawyers. Those students with no prior law-related experience are strongly encouraged to participate in the internship program to enhance their chances of securing employment upon graduation. Students enrolled in the Paralegal Studies Program may earn a Certificate of Completion (CCL) or an Associate in Applied Science (AAS) degree. A Verification of Eligibility form is required to be officially accepted to the program.

The Paralegal Studies Program is approved by the American Bar Association (ABA), Standing Committee on Paralegals, (321 N. Clark St., Mail Stop 19.1, Chicago, IL 60610-4714).

Program Notes:

+ indicates course has prerequisites and/or corequisites. Equivalent paralegal courses, as determined by the Paralegal Studies Program Director or Legal Studies Department Chair, taken at other institutions, will be accepted in transfer if taken at a regionally accredited institution, within a Paralegal Program that was approved by the American Bar Association (ABA) at the time the courses were completed, and that were completed with a grade of "B" or higher within ~~eight (8)~~ **six (6)** years of the date of admission or readmission to the Paralegal Studies Program; a maximum of ~~nine (9)~~ **six (6)** semester hours of **qualifying** coursework can be transferred and applied to paralegal (LAS) **Restricted Elective** courses at Phoenix College. Students must complete a minimum of ~~18~~ **24** credits in legal specialty courses as defined by the ABA. Paralegal Studies Courses required by this program are not applicable if taken more than ~~eight (8)~~ **six (6)** years prior to admission or readmission to the Paralegal Studies Program. Consult with the Paralegal Studies Program Advisor for complete information.

Admission Criteria:

Students wishing to enroll in the Paralegal Studies Program must complete a Verification of Eligibility form to be officially accepted in the program. Contact a Paralegal Studies advisor.

High school diploma or GED equivalency.
AND

Must have current English and Reading course placement test reflecting eligibility for:

- + ENG101 First-Year Composition OR
- + ENG107 First-Year Composition for ESL AND
- CRE101 Critical and Evaluative Reading I

OR

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: Paralegal Studies
 Award Type: CCL Initiating College: PC
 Effective First Year Term: **2009 Fall** Program Availability: College Specific
 Overall G.P.A.: 2.00 Total Credits: 33

Major Code: 5384 CIPS Code: 22.03.02
 Initiator: Scott Hauert Instructional Council: Administration of Justice Studies (01)

(CCL in Paralegal Studies continued)

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

Completion of ENG101 First Year Composition OR
 equivalent course AND
 + CRE101 Critical and Evaluative Reading I with a grade of "C" or better OR
 Equivalent as indicated by assessment.

OR

Permission of Department Chair or Program Director.

Program Prerequisites: Credits: 3

BPC110 Computer Usage and Applications (3) OR
 Equivalent OR Permission of department chair or program director.

Required Courses: Credits: 27

Students must earn a grade of "C" or better in all courses in the Required Courses area.
 Students must complete a minimum of ~~18~~ **24** credits in legal specialty courses as defined by the ABA from the list that follows:

LAS101	Introduction to Law	3
+ LAS109	Legal Procedures Civil Procedures I	3
+ LAS110	Legal Procedures Civil Procedures II	3
+ LAS131	Legal Writing+	3
+ LAS203	Ethics and Professional Practice	3
+ LAS204	Business Law for Paralegals Contract Law	3
+ LAS211	Legal Research	3
+ LAS212	Insurance and Tort Law	3
+ LAS229	Computerized Law Office and Litigation Technologies Support	3

Restricted Electives: Credits: 6

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

LAS100	The Paralegal Profession	3
+ LAS115	Criminal Trial Procedure	3
+ LAS208	Probate	3
+ LAS213	Employee Law for Paralegals Employment Law	3
+ LAS214	Law of Business Organizations	3
+ LAS216	Real Estate Transactions	3
+ LAS217	Family Law	3
+ LAS218	Administrative Law	3
+ LAS220	Paralegal Internship Seminar	1
+ LAS221AA	Paralegal Internship (1) OR	
+ LAS221AB	Paralegal Internship (2) OR	
+ LAS221AC	Paralegal Internship (3)	1-3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: Paralegal Studies
Initiating College: PC
Program Availability: College Specific
Total Credits: 33

Major Code: 5384
Initiator: Scott Hauert

CIPS Code: 22.03.02
Instructional Council: Administration of Justice Studies (01)

(CCL in Paralegal Studies continued)

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

+ LAS225	Legal Research, Analysis, and Writing	3
+ LAS237	Legal Interviewing, Investigation, and Report Writing	3
+ LAS261	Bankruptcy	3

Free Electives: None

General Education: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Architectural Drafting
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 66-69

Major Code: 3500	CIPS Code: 15.13.03
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

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

Proposed Program Title To: Architectural CAD Technology
Proposed Total Program Credits To: 72-74

Description: The ~~Architectural Drafting Associate in Applied Science (AAS) program~~ **in Architectural CAD Technology degree** provides students with the background, knowledge, and skills required to begin a career in architectural drafting and computer-aided design. **Emphasis is on the development of** ~~Students gain on-the-board studio skills as well as~~ **and computer-aided drafting skills-, critical thinking and problem solving skills and knowledge of building materials, methods and costs.** ~~They~~ **Students** develop the flexibility to **adapt** to constantly changing technologies ~~technology~~ which affects the ~~architectural and building trades industry~~ **architecture, engineering and construction industries.**

Program graduates **are prepared for entry level careers with** ~~have a variety of career possibilities, including positions with~~ **architectural and engineering firms**, residential and commercial builders, construction companies, ~~cost estimators, facilities-~~ **municipal planning offices, land development offices, architect's and designer's offices, building supply centers, the pre-engineered metal building industry, engineering firms, and structural steel detailing firms.** **A Certificate of Completion (CCL) is also available.**

Program Notes:

+ indicates course has prerequisites and/or corequisites

~~++ indicates any module.~~

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

Students planning to transfer to a four-year college or university should contact ~~the Industrial Technology faculty or the Advisement~~ **Transfer** Center for specific information on transfer requirements.

College-level English, Mathematics, and Reading skills are strongly recommended.

Admission Criteria: **None**

Program Prerequisites: Credits: ~~4~~ **None.**

~~BPC/CIS121AE — Windows Operating System: Level I (1) OR~~

~~BPC/CIS121AG — Windows 98 — Level I (1) OR~~

~~Equivalent _____ 1~~

Required Courses: Credits: ~~35-37~~ **-50-52**

ARC121	Introduction to Architectural Drafting: Manual	3
ARC140	Rendering and Portfolio Development	3
+ ARC160	Site Planning	3
+ ARC225	Fundamentals of Architectural Detailing	3
BLT263AK	Building Codes: IBC	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
CAD100	Fundamentals of 2D AutoCAD	3
+ CAD167	Architectural Drawings (REVIT) I: Residential CAD	3
+ CAD215	Three-Dimensional AutoCAD Modeling	3
+ CAD255	Structural Details	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Architectural Drafting
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 66-69

Major Code: 3500	CIPS Code: 15.13.03
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

(AAS in Architectural Drafting continued)

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

Proposed Program Title To: Architectural CAD Technology
Proposed Total Program Credits To: 72-74

+ CAD256	CAD Customization and Management	3
+ CAD267	Architectural Drawings (REVIT) II: Commercial CAD	3
CNS175	Working Drawing Analysis: Blueprint Reading	3
CNS180	Building Construction Methods, Materials, and Equipment	3
+ CNS260	Strength of Materials	3
+ MAT151	College Algebra/Functions (4) AND	
+ MAT182	Plane Trigonometry (3) OR	
+ MAT187	Precalculus (5)	5-7
+ CET211	Strength of Materials	3
- DFT121	Introduction to Architectural Drafting	3
+ DFT122	Residential Architectural Drafting	3
+ DFT123	Commercial Architectural Drafting	3
+ DFT221	Architectural Rendering: Pen and Ink, Technical Techniques	3
+ DFT223	Structural Steel Detailing	3
+ DFT224	Landscape Architectural Drafting	3
+ DFT252AA	Computer Aided Drafting I: AutoCAD	3
+ DFT254AA	Computer Aided Drafting II: AutoCAD	3
+ DFT257AD	Architectural CAD: Architectural Desktop	3

Restricted Electives: Credits: 9-10 **None.**

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

- BLT120	Techniques of Building Inspection	3
- BLT124	Designing for the Americans with Disabilities Act (ADA)	3
- BLT130	Applied Building Codes	4
+ BLT200	Construction Management: Field Operations	3
+ CET101	Surveying I	3
- CET171	Construction Contracts	3
- DFT126	Building Trades Blueprint Reading	3
+ DFT131	Civil Drafting I	3
+ DFT222	Architectural Rendering: Color, Freehand Techniques	3
+ DFT256AA	Computer Aided Drafting III: AutoCAD	3
- GTC121	Construction Estimating I	3

Free Electives: None

General Education: Credits: 22

CORE: Credits: 12

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Architectural Drafting
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 66-69

Major Code: 3500	CIPS Code: 15.13.03
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

(AAS in Architectural Drafting continued)

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

Proposed Program Title To: Architectural CAD Technology
Proposed Total Program Credits To: 72-74

First-Year Composition		
+ Any approved general education courses 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 OR Equivalent as indicated by assessment.		3
Mathematics		
Met by (MAT151 AND MAT182), OR MAT187 in Required Courses Area.		0

DISTRIBUTION: Credits: 10

Humanities and Fine Arts		
CNS101	Construction and Culture	3
ARH100 OR ARH101 OR INT115 OR INT120 recommended.		
Social and Behavioral Sciences		
Any approved general education course in the Social and Behavioral Sciences Area		3
Natural Sciences		
+ PHY101	Introduction to Physics	4

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Architectural Drafting
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 35-37

Major Code: 5500	CIPS Code: 15.13.03
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

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

Proposed Program Title To: Architectural CAD Technology
Proposed Total Program Credits To: 50-52

Description: The ~~Architectural Drafting program~~ **Certificate of Completion (CCL) in Architectural CAD Technology** provides students with the background, knowledge, and skills required to begin a career in architectural drafting and computer-aided design. ~~Students gain on-the-board studio skills as well as~~ **and computer-aided drafting skills-, critical thinking and problem solving skills and knowledge of building materials, methods and costs.** ~~They~~ **Students** develop the flexibility to **adapt** to constantly changing technologies ~~technology~~ which affects the ~~architectural and building trades industry~~ **architecture, engineering and construction industries.**

Program completers ~~graduates are prepared for entry-level careers with~~ **have a variety of career possibilities, including positions with architectural and engineering firms,** residential and commercial builders, construction companies, cost estimators, facilities- **municipal planning offices, land development offices, architect's and designer's offices, building supply centers, the pre-engineered metal building industry, engineering firms, and structural steel detailing firms. An Associate in Applied Science (AAS) is also available.**

Program Notes:

+ indicates course has prerequisites and/or corequisites
 Students planning to transfer to a four-year college or university should contact the ~~Industrial Technology faculty or the Advisement-Transfer~~ **Center** for specific information on transfer requirements.
 Students must earn a grade of "C" or better for all courses required within the program.
College-level English, Mathematics, and Reading skills are strongly recommended.

Admission Criteria: None

Program Prerequisites: Credits: 4 None.

BPC/CIS121AE	Windows Operating System: Level I (1) OR	
BPC/CIS121AG	Windows 98 - Level I (1) OR	
	Equivalent	1

Required Courses: Credits: ~~35-37~~ -50-52

ARC121	Introduction to Architectural Drafting: Manual	3
ARC140	Rendering and Portfolio Development	3
+ ARC160	Site Planning	3
+ ARC225	Fundamentals of Architectural Detailing	3
BLT263AK	Building Codes: IBC	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
CAD100	Fundamentals of 2D AutoCAD	3
+ CAD167	Architectural Drawings (REVIT) I: Residential CAD	3
+ CAD215	Three-Dimensional AutoCAD Modeling	3
+ CAD255	Structural Details	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Architectural Drafting
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 35-37

Major Code: 5500	CIPS Code: 15.13.03
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

(CCL in Architectural Drafting continued)

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

Proposed Program Title To: Architectural CAD Technology
Proposed Total Program Credits To: 50-52

+ CAD256	CAD Customization and Management	3
+ CAD267	Architectural Drawings (REVIT) II: Commercial CAD	3
CNS175	Working Drawing Analysis: Blueprint Reading	3
CNS180	Building Construction Methods, Materials, and Equipment	3
+ CNS260	Strength of Materials	3
+ MAT151	College Algebra/Functions (4) AND	
+ MAT182	Plane Trigonometry (3) OR	
+ MAT187	Precalculus (5)	5-7
+ CET211	Strength of Materials	3
— DFT121	Introduction to Architectural Drafting	3
+ DFT122	Residential Architectural Drafting	3
+ DFT123	Commercial Architectural Drafting	3
+ DFT221	Architectural Rendering: Pen and Ink, Technical Techniques	3
+ DFT223	Structural Steel Detailing	3
+ DFT224	Landscape Architectural Drafting	3
+ DFT252AA	Computer Aided Drafting I: AutoCAD	3
+ DFT254AA	Computer Aided Drafting II: AutoCAD	3
+ DFT257AD	Architectural CAD: Architectural Desktop	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Computer Aided Drafting
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 18

Major Code: 5650	CIPS Code: 15.13.03 -15.13.02
Initiator: Jesse Mireles	Instructional Council: Drafting (24)

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

Proposed Total Program Credits To: 27

Description: The ~~Computer Aided Drafting (CAD)~~ Certificate of Completion (**CCL**) in **Computer Aided Drafting** program is designed to develop two- and three-dimensional CAD skills along with competence in CAD customization and management. Completion of the certificate prepares students for entry level positions as CAD drafters, **technicians and managers** and offers career advancement opportunities for persons currently employed in design/drafting positions.

Program Notes:
 + indicates course has prerequisites and/or corequisites
 Students must earn a grade of "C" or better ~~in each course~~ **for all courses** required within the program. Students planning to transfer to a four-year college or university should contact ~~the Industrial Technology faculty~~ or the **Advisement Transfer** Center for specific information on transfer requirements.
College-level English, Mathematics, and Reading skills are strongly recommended.

Admission Criteria: None.

Program Prerequisites: Credits: ~~4~~ None.

BPC/CIS121AE	Windows Operating System: Level I (1) OR	
BPC/CIS121AG	Windows 98 - Level I (1) OR	
	Equivalent	1

Required Courses: Credits: ~~18~~ 27

DFT ARC121	Introduction to Architectural Drafting: Manual	3
+ ARC225	Fundamentals of Architectural Drafting	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
CAD100	Fundamentals of 2D AutoCAD	3
+ CAD167	Architectural Drawings (REVIT) I: Residential CAD	3
+ CAD215	Three-Dimensional AutoCAD Modeling	3
+ CAD256	CAD Customization and Management (pending)	3
+ CAD267	Architectural Drawings (REVIT) II: Commercial CAD	3
CNS175	Working Drawing Analysis: Blueprint Reading	3
+ DFT122	Residential Architectural Drafting	3
+ DFT252AA	Computer Aided Drafting I: AutoCAD	3
+ DFT254AA	Computer Aided Drafting II: AutoCAD	3
+ DFT256AA	Computer Aided Drafting III: AutoCAD	3
+ DFT257AD	Architectural CAD: Architectural Desktop	3

Restricted Electives: None.

Free Electives: None.

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Building Safety and Construction Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits:64

Major Code: 3832	CIPS Code: 46.04.03
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

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

Proposed Total Program Credits To: 61

Description: The Associate in Applied Science (AAS) in Building Safety and Construction Technology is designed to prepare students for positions as building inspectors for local municipalities and construction companies. The building inspector's work involves face-to-face relationships with building contractors, trades people, architects, engineers, homeowners, and other members of the general public. A thorough knowledge of building codes and construction methods accompanied by good communication and judgment skills is emphasized throughout the program. 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 required within the program.
 Students planning to transfer to a four-year college or university should contact ~~the Industrial Technology faculty~~ or the **Advisement Transfer** Center for specific information on transfer requirements.

Admission Criteria: None.

Program Prerequisites: Credits: ~~17-21~~ 9-13

DFT110	Technical Drafting I (3) OR	
DFT121	Introduction to Architectural Drafting (3) OR	
	Permission of Department Chairperson	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
GTC121	Construction Estimating I (3) OR	
	Permission of Department Chair	3
+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Equivalent course OR	
	A satisfactory score on the District placement exam	3-5
+ MAT150	College Algebra/Functions (5) OR	
+ MAT151	College Algebra/Functions (4) OR	
+ MAT152	College Algebra/Functions (3) OR	
	Equivalent course OR	
	A satisfactory score on District placement exam	3-5
+ MAT187	Precalculus (5) OR	
	Satisfactory score on District placement exam	5

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Building Safety and Construction Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits:64

Major Code: 3832	CIPS Code: 46.04.03
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

(AAS in Building Safety and Construction Technology continued)

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

Proposed Total Program Credits To: 61

Required Courses: Credits: ~~42~~ 39

BLT120	Techniques of Building Inspection	3
BLT121	Electrical Codes	3
BLT124	Designing for the Americans with Disabilities Act (ADA)	3
+ BLT126	Soil Mechanics	3
BLT127	Plumbing Codes	3
BLT128	Mechanical Codes	3
BLT263AK	Building Codes: IBC	3
BLT263AL	Building Codes: IRC	3
CAD100	Fundamentals of 2D AutoCAD	3
CNS175	Working Drawing Analysis: Blueprint Reading	3
CNS180	Building Construction Methods, Materials and Equipment	3
+ CNS260	Strength of Materials	3
+ MAT182	Plane Trigonometry	3
+ BLT122	Basic Engineering for Building Inspectors and Contractors I	3
BLT129	Materials of Construction	3
CIS105	Survey of Computer Information Systems	3
DFT126	Building Trades Blueprint Reading	3
+ DFT252AA	Computer Aided Drafting I: AutoCAD	3

Restricted Electives: None.

Free Electives: None.

General Education: Credits: 22

CORE: Credits: 12

First-Year Composition:

+ Any approved General Education courses 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 OR
 Equivalent as indicated by assessment. 3

Mathematics:

+ Met by MAT182 in Required Courses area. 0

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Building Safety and Construction Technology
Award Type: AAS	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits:64

Major Code: 3832	CIPS Code: 46.04.03
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

(AAS in Building Safety and Construction Technology continued)

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

Proposed Total Program Credits To: 61

DISTRIBUTION: Credits: 10

Humanities and Fine Arts:

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

CNS101	Construction and Culture	3
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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.~~

PHY101	Introduction to Physics	4
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ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Building Safety and Construction Technology
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 42

Major Code: 5432	CIPS Code: 46.01.03
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

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

Proposed Total Program Credits To: 39

Description: The Certificate of Completion (CCL) in Building Safety and Construction Technology program is designed to prepare students for positions as building inspectors for local municipalities and construction companies. The building inspector's work involves face-to-face relationships with building contractors, trades people, architects, engineers, homeowners, and other members of the general public. A thorough knowledge of building codes and construction methods accompanied by good communication and judgment skills is emphasized throughout the program. An Associate in Applied Science (AAS) is also available.

Program Notes:

+ indicates course has prerequisites and/or corequisites.
 Students must earn a grade of "C" or better in each course for all courses required within the program.
 Students planning to transfer to a four-year college or university should contact the Industrial Technology faculty or the Advisement Transfer Center for specific information on transfer requirements.

Admission Criteria: None.

Program Prerequisites: Credits: 17-24 9-13

DFT110	Technical Drafting I (3) OR	
DFT121	Introduction to Architectural Drafting (3) OR	
	Permission of Department Chairperson	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
GTC121	Construction Estimating I (3) OR	
	Permission of Department Chair	3
+ MAT120	Intermediate Algebra (5) OR	
+ MAT121	Intermediate Algebra (4) OR	
+ MAT122	Intermediate Algebra (3) OR	
	Equivalent course OR	
	A satisfactory score on the District placement exam	3-5
+ MAT150	College Algebra/Functions (5) OR	
+ MAT151	College Algebra/Functions (4) OR	
+ MAT152	College Algebra/Functions (3) OR	
	Equivalent course OR	
	A satisfactory score on District placement exam	3-5
+ MAT187	Precalculus (5) OR	
	Satisfactory score on District placement exam	5

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCED GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Building Safety and Construction Technology
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 42

Major Code: 5432	CIPS Code: 46.01.03
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

(CCL in Building Safety and Construction Technology continued)

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

Proposed Total Program Credits To: 39

Required Courses: Credits: ~~42~~ 39

	BLT120	Techniques of Building Inspection	3
	BLT121	Electrical Codes	3
	BLT124	Designing for the Americans with Disabilities Act (ADA)	3
+	BLT126	Soil Mechanics	3
	BLT127	Plumbing Codes	3
	BLT128	Mechanical Codes	3
	BLT263AK	Building Codes: IBC	3
	BLT263AL	Building Codes: IRC	3
	CAD100	Fundamentals of 2D AutoCAD	3
	CNS175	Working Drawing Analysis: Blueprint Reading	3
	CNS180	Building Construction Methods, Materials and Equipment	3
+	CNS260	Strength of Materials	3
+	MAT182	Plane Trigonometry	3
+	BLT122	Basic Engineering for Building Inspectors and Contractors I	3
	BLT129	Materials of Construction	3
	CIS105	Survey of Computer Information Systems	3
	DFT126	Building Trades Blueprint Reading	3
+	DFT252AA	Computer-Aided Drafting I: AutoCAD	3

Restricted Electives: None.

Free Electives: None.

General Education: None.

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Construction Management
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 36
Major Code: 5115	CIPS Code: 52.20.01
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

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

Proposed Total Program Credits To: 46

Description: The Certificate of Completion (CCL) in Construction Management primarily prepares construction industry people to assume leadership and middle management positions with construction companies, architectural and engineering firms, and land developers. The program emphasizes hands-on skills in construction estimating, scheduling, communicating, supervising and managing construction personnel, equipment and documents. Completers are prepared for entry-level positions as estimators, ~~project coordinators,~~ project managers, construction superintendents, and job site administrators. **An Associate in Applied Science (AAS) is also available.**

Program Notes:

+ indicates course has prerequisites and/or corequisites.
 Students must earn a grade of "C" or better for all courses required within the program.
Students planning to transfer to a four-year college or university should contact the Transfer Center for specific information on transfer requirements.
College-level English, Mathematics, and Reading skills are strongly recommended.

Admission Criteria: None

Program Prerequisites: Credits: ~~12-17~~ 9

— DFT110	Technical Drafting I (3) OR	
— DFT121	Introduction to Architectural Drafting (3) OR	
— Permission of Department Chairperson		3
— DFT105AA	Computer Aided Drafting I: AutoCAD (3) OR	
+ DFT252AA	Computer Aided Drafting I: AutoCAD (3) AND	
— DFT121	Introduction to Architectural Drafting (3) OR	
— Equivalent courses OR		
— Permission of Department Chairperson		3-6
+ DFT122	Residential Architectural Drafting	3
+ MAT150	College Algebra/Functions (5) OR	
+ MAT151	College Algebra/Functions (4) OR	
+ MAT152	College Algebra/Functions (3) OR	
— Equivalent course OR		
+ MAT187	Precalculus (5) OR	
— Satisfactory score on District placement exam		3-5
ARC121	Introduction to Architectural Drafting: Manual	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
CAD100	Fundamentals of 2D AutoCAD	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: Construction Management
 Initiating College: PC
 Program Availability: College Specific
 Total Credits: 36

Major Code: 5115
 Initiator: Jesse Mireles

CIPS Code: 52.20.01
 Instructional Council Receiving Proposal: Drafting (24)

(CCL in Construction Management continued)

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

Proposed Total Program Credits To: 46

Required Courses: Credits: ~~36~~ 46

	BLT120	Techniques of Building Inspection	3
	BLT124	Designing for the Americans with Disabilities Act (ADA)	3
+	BLT200	Construction Management: Field Operations	3
+	BLT201	Construction Management: Office Operations	3
+	BLT/CNS205	Sustainable Construction	3
	BLT263AK	Building Codes: IBC	3
	BLT263AL	Building Codes: IRC	3
+	CAD167	Architectural Drawings (REVIT) I: Residential CAD	3
	CNS175	Working Drawing Analysis: Blueprint Reading	3
	CNS180	Building Construction Methods, Materials, and Equipment	3
+	CNS260	Strength of Materials	3
	GTC121	Construction Estimating I	3
+	GTC123	Construction Estimating II	3
+	MAT151	College Algebra/Functions	4
+	MAT182	Trigonometry	3
—	CET103	Construction Methods I	3
—	CIS105	Survey of Computer Information Systems	3
—	DFT126	Building Trades Blueprint Reading	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Construction Management
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 36
Major Code: 5115	CIPS Code: 52.20.01
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

(CCL in Construction Management continued)

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

Proposed Total Program Credits To: 46

Program Addition: AAS/3123: Construction Management
Total Credits: 68
Overall G.P.A.: 2.00
CIPS Code: 52.20.01
Program Availability: College Specific

Description: **The Associate in Applied Science (AAS) in Construction Management degree prepares construction industry people to assume leadership and middle management positions with construction companies, architectural and engineering firms, and land developers. The program emphasizes hands-on skills in construction estimating, scheduling, communicating, supervising and managing construction personnel, equipment, and documents. Completers are prepared for entry-level positions as estimators, project managers, construction superintendents, and job-site administrators. 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 required within the program.
College-level English, Mathematics, and Reading skills are strongly recommended.

Admission Criteria: **None.**

Program Prerequisites: Credits: 9

ARC121	Introduction to Architectural Drafting: Manual	3
BPC110	Computer Usage and Applications (3) OR	
CIS105	Survey of Computer Information Systems (3)	3
CAD100	Fundamentals of 2D AutoCAD	3

Required Courses: Credits: 46

BLT120	Techniques of Building Inspection	3
BLT124	Designing for the Americans with Disabilities Act (ADA)	3
+ BLT200	Construction Management: Field Operations	3
+ BLT201	Construction Management: Office Operations	3
+ BLT/CNS205	Sustainable Construction	3
BLT263AK	Building Codes: IBC	3
BLT263AL	Building Codes: IRC	3
+ CAD167	Architectural Drawings (REVIT) I: Residential CAD	3
CNS175	Working Drawing Analysis: Blueprint Reading	3
CNS180	Building Construction Methods, Materials, and Equipment	3
+ CNS260	Strength of Materials	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Construction Management
Award Type: CCL	Initiating College: PC
Effective First Year Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 36
Major Code: 5115	CIPS Code: 52.20.01
Initiator: Jesse Mireles	Instructional Council Receiving Proposal: Drafting (24)

(CCL in Construction Management continued)

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

Proposed Total Program Credits To: 46

Program Addition: AAS/3123: Construction Management
Total Credits: 68
Overall G.P.A.: 2.00
CIPS Code: 52.20.01
Program Availability: College Specific

	GTC121	Construction Estimating I	3
+	GTC123	Construction Estimating II	3
+	MAT151	College Algebra/Functions	4
+	MAT182	Trigonometry	3

Restricted Electives: None

General Education: **Credits: 22**

CORE: Credits: 12

First-Year Composition
 + Any approved general education courses 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 OR
 Equivalent as indicated by assessment. 3

Mathematics
 Met by MAT151 and MAT182 in Program Prerequisites Area. 0

DISTRIBUTION: Credits: 10

Humanities and Fine Arts
 CNS101 Construction and Culture 3

Social and Behavioral Sciences
 Any approved general education course in the Social and Behavioral Sciences Area 3

Natural Sciences
 + PHY101 Introduction to Physics 4

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type:**OPM**
Award Type:**Certificate of Completion**
Effective First Year Term:**2009 Fall**
Overall G.P.A.:**2.00**

Program Title:**Web Design**
Initiating College:**PVCC**
Program Availability:**GCC, GWCC (Mor), PVCC**
Total Credits: **18**

Major Code:**5159**
Initiator: **Jim Nichols, Cindy Cloud**

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

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

Proposed Program Availability To: Shared by: GCC, GWCC (Mor), PVCC, EMCC, PC

Description: The certificate of **Completion (CCL)** in Web Design is intended for those interested in designing and maintaining web pages for personal or small business use.

Program Notes:

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

+ indicates course has prerequisites and/or corequisites.

++ indicates any module.

Admission Criteria: None

Program Prerequisites: None

Required Courses:	Credits: 18	
CIS120DC	Computer Graphics: Macromedia Flash	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop(3) OR	
BPC/CIS120AF	Computer Graphics: Adobe Photoshop: Level I (1) AND	
BPC/CIS120BF	Computer Graphics: Adobe Photoshop: Level II (1) AND	
BPC/CIS120CF	Computer Graphics: Adobe Photoshop: Level III (1)	3
BPC/CIS133DA	Internet/Web Development Level I	3
CIS166++	Any module.	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS235	e-Commerce	3

Restricted Electives: None

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Workforce Development and Community Re-Entry**
Award Type: **AAS** Initiating College: **RSC**
Effective First Year Term: **2009 Summer II** Program Availability: **College Specific**
Overall G.P.A.: **2.00** Total Credits: **64-67**

Major Code: **3092** CIPS Code: **32.01.01**
Initiator: **Rick Kemp** Instructional Council: **Occupational Administrators (53)**

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

Description: The Workforce Development and Community Re-Entry program is designed to provide incarcerated persons with the skills needed to effectively transition from incarceration to the community. Courses in the program will focus on job readiness, job preparation, and job retention skills as well as family reunification, personal and social skill development, and substance abuse education. The program includes a Certificate of Completion (CCL) in Workforce Development and Community Re-Entry and an Associate of Applied Science (AAS) in Workforce Development and Community Re-Entry, as well as various other Certificate of Completions in the areas of Culinary Arts, Carpentry, Graphic Arts, Automotive Technology, Horticulture, **Landscape Technology**, Welding, Furniture Construction/Refinishing, and Electrical.

Program Notes:

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

Admission Criteria:

Permission of Department or Division is required for admission to the Workforce Development and Community Re-Entry program.

Program Prerequisites: None.

Required Courses: Credits: 13

CCL in Workforce Development and Community Re-Entry (5581) 13

Restricted Electives: Credits: 26-29

Students will choose one of the following for a total of 26-29 credits.

Students must choose 26-29 industry/job specific elective credits from the list of Restricted Electives below. These industry/job specific credits must include a minimum of 9 credits with a common prefix.

- ABA+++++ Any ABA Arizona Builders Alliance course
- ABC+++++ Any ABC Associated Builders and Contractors course
- ACC+++++ Any ACC Accounting course
- ADA+++++ Any ADA Advertising Arts course
- AGB+++++ Any AGB Agribusiness course
- AGL+++++ Any AGL Agricultural Landscape course
- AGS+++++ Any AGS Agricultural Science course
- APT+++++ Any APT Automotive Performance Technology course
- AUT+++++ Any AUT Automotive Technology course
- BLT+++++ Any BLT Building Safety and Construction Technology course
- BPC+++++ Any BPC Business-Personal Computers course
- CIS+++++ Any CIS Computer Information Systems course
- CNS+++++ Any CNS Construction course
- ELA+++++ Any ELA Electrician: Apprenticeship course
- FON+++++ Any FON Food and Nutrition course
- GTC+++++ Any GTC General Technology course

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Workforce Development and Community Re-Entry**
Award Type: **AAS** Initiating College: **RSC**
Effective First Year Term: **2009 Summer II** Program Availability: **College Specific**
Overall G.P.A.: **2.00** Total Credits: **64-67**

Major Code: **3092** CIPS Code: **32.01.01**
Initiator: **Rick Kemp** Instructional Council: **Occupational Administrators (53)**

(AAS in Workforce Development and Community Re-Entry continued)

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

IEC+++++ Any IEC Independent Electrical Contractors course
IND+++++ Any IND Industry course
REC+++++ Any REC Recreation course
SUN+++++ Any SUN Sundtcorp course
WLD+++++ Any WLD Welding Technology course
WWM+++++ Any WWM Water/Wastewater Management course

OR

Certificate of Completion in Workforce Development: Carpentry Level I (5584)
Students must also choose 11.5-14.5 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Carpentry Level II (5586)
Students must also choose 0-1 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Electrical Level I (5588)
Students must also choose 13.5-16.5 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Electrical Level II (5590)
Students must also choose 0-2.5 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Horticulture ~~Level I~~ (5592)
Students must also choose ~~14-17~~ **12-15** industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: ~~Horticulture Level II~~ **Landscape Technology** (5593)
Students must also choose ~~0-3~~ **10-13** industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Automotive Technology Level I (5594)
Students must also choose 13-16 industry/job specific elective credits from the list of Restricted Electives.

OR

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Workforce Development and Community Re-Entry
Award Type: AAS	Initiating College: RSC
Effective First Year Term: 2009 Summer II	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 64-67

Major Code: 3092	CIPS Code: 32.01.01
Initiator: Rick Kemp	Instructional Council: Occupational Administrators (53)

(AAS in Workforce Development and Community Re-Entry continued)

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

Certificate of Completion in Workforce Development: Automotive Technology Level II (5597)

OR

Certificate of Completion in Workforce Development: Welding Level I (5601)
Students must also choose 13-16 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Welding Level II (5602)

OR

Certificate of Completion in Workforce Development: Furniture Construction/Refinishing Level I (5603)
Students must also choose 14-17 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Furniture Construction/Refinishing Level II (5604)
Students must also choose 0-2 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Graphic Arts Level I (5605)
Students must also choose 14-17 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Graphic Arts Level II (5606)
Students must also choose 0-2 industry/job specific elective credits from the list of Restricted Electives.

OR

Certificate of Completion in Workforce Development: Culinary Arts (5582)
Students must also choose 12-15 industry/job specific elective credits from the list of Restricted Electives.

Free Electives: None.

General Education: Credits: 25

Core: Credits: 15

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Workforce Development and Community Re-Entry**
Award Type: **AAS** Initiating College: **RSC**
Effective First Year Term: **2009 Summer II** Program Availability: **College Specific**
Overall G.P.A.: **2.00** Total Credits: **64-67**

Major Code: **3092** CIPS Code: **32.01.01**
Initiator: **Rick Kemp** Instructional Council: **Occupational Administrators (53)**

(AAS in Workforce Development and Community Re-Entry continued)

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

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
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 Science 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: 6/23/09

Proposal Development Type: **OPM** Program Title: **Workforce Development: Horticulture Level I**
Award Type: **CCL** Initiating College: **RSC**
Effective First Year Term: **2009 Summer II** Program Availability: **College Specific**
Overall G.P.A.: **2.00** Total Credits: **12**

Major Code: **5592** CIPS Code: **01.11.03**
Initiator: **Rick Kemp** Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Workforce Development: Horticulture
Proposed Total Program Credits To: 14

Description: The Certificate of Completion (CCL) in Workforce Development: Horticulture ~~Level I~~ is designed to prepare the incarcerated person with skills needed to work in the field of horticulture upon release. Courses in the program focus on ~~landscape design,~~ **methods of controlling insects, weeds, and plant diseases as well as** plant growth, and greenhouse management.

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

Admission Criteria:
Permission of Department or Division is required for admission to the Workforce Development and Community Re-Entry program.

Program Prerequisites: None.

Required Courses: Credits: ~~12~~-14

AGL184	Landscape Drafting and Design I	2
AGS164	Plant Growth and Development	4
AGS183	Urban Plant Identification and Use	3
AGS186	Greenhouse Management and Construction	3
AGS268	Insect, Weed and Pest Control	4

Restricted Electives: Credits: None.

Free Electives: None.

General Education: None.

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Workforce Development: Horticulture Level II**
Award Type: **CCL** Initiating College: **RSC**
Effective First Year Term: **2009 Summer II** Program Availability: **College Specific**
Overall G.P.A.: **2.00** Total Credits: **26**

Major Code: **5593** CIPS Code: **01.11.03**
Initiator: **Rick Kemp** Instructional Council: **Occupational Administrators (53)**

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

Proposed Program Title To: Workforce Development: Landscape Technology
Proposed Total Program Credits To: 16

Description: The Certificate of Completion (CCL) in Workforce Development: ~~Horticulture Level II~~ **Landscape Technology** is advanced training for the incarcerated person to prepare to work in the ~~horticulture~~ **landscaping** field upon release, including skills to run an agribusiness. Courses continue to provide training in **landscape design and management** ~~landscaping~~ as well as irrigation and watering, plant **identification**, ~~diseases~~, and lawn and turf procedures.

Program Notes:

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

Admission Criteria: ~~None.~~ **Permission of Department or Division is required for admission to the Workforce Development and Community Re-Entry program.**

Program Prerequisites: ~~Credits: 12~~ **None.**

~~CCL in Workforce Development: Horticulture Level I (5592) 12~~

Required Courses: Credits: 14-16

AGB130	Establishing and Running an Agribusiness	3
AGL184	Landscape Drafting and Design I	2
AGS183	Urban Plant Identification and Use	3
AGS264	Irrigation and Water Management	3
AGS267	Weeds and Plant Diseases of Arizona	3
AGS284	Lawn and Turf Care	3
GCO/REC132	Landscape Management	2

Restricted Electives: Credits: None.

Free Electives: None.

General Education: None.

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Web Design**
Initiating College: **SCC**
Program Availability: **College Specific**
Total Credits: **60-63**

Major Code: **3029**
Faculty Initiator: **Pat Serrano**

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

(AAS in Web Design continued)

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

Free Electives:None

General Education: Credits: 24-27

CORE: Credits: 15-17

First-Year Composition

+ Any approved general education course from the First-Year Composition area 6

Oral Communication

Any approved general education course from the Oral Communication area 3

Critical Reading

+ CRE101 Critical and Evaluative Reading I (3) OR
equivalent as indicated 3

Mathematics

+ Any approved general education course from the Mathematics area 3-5

DISTRIBUTION: CREDITS: 9-10

Humanities and Fine Arts

Any approved general education course from the Humanities and Fine Arts area 2-3

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: 6/23/09

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

Program Title:**Web Design**
Initiating College:**SCC**
Program Availability:**College Specific**
Total Credits:**36**

Major Code:**5172**
Initiator:**Pat Serrano**

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

(CCL in Web Design continued)

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

+ CIS220DC	Flash: Advanced Animation and ActionScript	3
+ CIS226AL	Internet/Intranet Server Administration-Linux	3
+ CIS276++	Any Database Management Systems module	3

Free Electives:None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Web Development**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **63-66**

Major Code: **3031**
 Faculty Initiator: **Pat Serrano**

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

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

Proposed Total Program Credits To: 60-63

Description: The Associate in Applied Science (AAS) in Web Development prepares students to design, create and administer interactive and professional web sites that utilize server side programming technologies. Web page navigation, web publishing, web graphics preparation, database design and development, and e-commerce solutions, including store front setup, are integral components of this degree which focuses on server-side programming. In addition to web page creation, students study object-oriented systems analysis and design methods, structured programming logic and design, programming in an Object Oriented Programming Language, ~~and database design and development using both Microsoft Access and Oracle, and application development with XML.~~ Potential job opportunities following program completion include web designer, web developer, web marketing manager, web manager, e-commerce manager, web programmer, web technician, or web server administrator.

A Certificate of Completion (CCL) in Web Development 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.

++ Indicates any module

Admission Criteria:None

Program Prerequisites: Credits: 3

+ CRE101	Critical and Evaluative Reading I (3) OR Equivalent by Assessment	3
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Required Courses: Credits: 42 39

BPC/CIS117DM	Microsoft Access: Database Management	3
BPC/CIS133DA	Internet/Web Development Level I	3
CIS105	Survey of Computer Information Systems	3
+ CIS119DO	Introduction to Oracle: SQL (3) OR	3
+ CIS217AM	Advanced Microsoft Access: Database Management (3) OR	
+ CIS276++	Any Database Management Systems module (3)	3
CIS126DA	UNIX Operating System (3) OR	
CIS126DL	Linux Operating System (3)	3
+ CIS150	Programming Fundamentals	3
+ CIS159	Visual Basic Programming I (3) OR	
+ CIS162++	Any 100-level C Programming Level I (any module) (3) OR	
+ CIS163AA	Java Programming: Level I (3)	3
+ CIS259	Visual Basic Programming II (3) OR	
+ CIS166AC	Web Scripting with Active Server Pages (ASP).NET (3) OR	
+ CIS262++	Any 200-level C Programming Level II (any module) (3) OR	3
+ CIS263AA	Java Programming: Level II (3) OR	3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Web Development**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **63-66**

Major Code: **3031**
 Faculty Initiator: **Pat Serrano**

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

(AAS in Web Development continued)

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

Proposed Total Program Credits To: 60-63

+ CIS166	Web Scripting/Programming	3
+ CIS166AE	Web Scripting with PHP: Hypertext Preprocessor (PHP)	3
+ CIS225AB	Object-Oriented Analysis and Design	3
+ CIS226++	Any Internet/Intranet Server Administration (Any module)	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS234	XML Application Development	3
+ CIS235	e-Commerce	3

Restricted Electives:None

Free Electives:None

General Education: Credits: 21-24

Core: Credits: 12-14

First-Year Composition

+ Any approved general education course from the First-Year Composition area. 6

Oral Communication

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

Critical Reading

+ Met by CRE101 (3) OR
 Equivalent as indicated by assessment in Program Prerequisite area. 0

Mathematics

Any approved general education course from the Mathematics area. 3-5

Distribution: Credits: 9-10

Humanities and Fine Arts

Any approved general education course from the Humanities and Fine Arts area. 2-3

Natural Sciences

Any approved general education course from the Natural Sciences area. 4

Social and Behavioral Sciences

Any approved general education course from the Social and Behavioral Sciences area. 3

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title:**Web Development**
 Initiating College:**SCC**
 Program Availability:**College Specific**
 Total Credits:**42**

Major Code:**5346**
 Initiator:**Pat Serrano**

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

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

Proposed Total Program Credits To:39

Description: The Certificate of Completion (CCL) in Web Development prepares students to design, create and administer interactive and professional web sites that utilize server side programming technologies. Web page navigation, web publishing, web graphics preparation, database design and development, and e-commerce solutions, including store front setup, are integral components of this degree which focuses on server-side programming. In addition to web page creation, students study object-oriented systems analysis and design methods, structured programming logic and design, programming in an Object Oriented Programming Language, **and** database design and development using both Microsoft Access and Oracle, ~~and application development with XML~~. Potential job opportunities following program completion include web designer, web developer, web marketing manager, web manager, e-commerce manager, web programmer, web technician, or web server administrator. An Associate of Applied Science (AAS) Degree in Web Development 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.

++ Indicates any module

Admission Criteria:None

Program Prerequisites: Credits: 3

+ CRE101	Critical and Evaluative Reading I (3) OR Equivalent by Assessment	3
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Required Courses: Credits: 42 39

BPC/CIS117DM	Microsoft Access: Database Management	3
BPC/CIS133DA	Internet/Web Development Level I	3
CIS105	Survey of Computer Information Systems	3
+ CIS119DO	Introduction to Oracle: SQL (3) OR	3
+ CIS217AM	Advanced Microsoft Access: Database Management (3) OR	
+ CIS276++	Any Database Management Systems module (3)	3
CIS126DA	UNIX Operating System (3) OR	
CIS126DL	Linux Operating System (3)	3
+ CIS150	Programming Fundamentals	3
+ CIS159	Visual Basic Programming I (3) OR	3
+ CIS162++	Any 100-level C Programming Level I (any-module) (3) OR	
+ CIS163AA	Java Programming: Level I (3)	3
+ CIS259	Visual Basic Programming II (3) OR	
+ CIS166AC	Web Scripting with Active Server Pages (ASP).NET (3) OR	
+ CIS262++	Any 200-level C Programming Level II (any-module) (3) OR	3
+ CIS263AA	Java Programming: Level II (3)	3

ATTACHMENT: OPM
OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

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

Program Title:**Web Development**
Initiating College:**SCC**
Program Availability:**College Specific**
Total Credits:**42**

Major Code:**5346**
Initiator:**Pat Serrano**

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

(CCL in Web Development continued)

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

Proposed Total Program Credits To:39

+ CIS166	Web Scripting/Programming	3
+ CIS166AE	Web Scripting with PHP: Hypertext Preprocessor (PHP)	3
+ CIS225AB	Object-Oriented Analysis and Design	3
+ CIS226++	Any Internet/Intranet Server Administration (any module)	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS234	XML Application Development	3
+ CIS235	e-Commerce	3

Restricted Electives:None

Free Electives:None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Office Automation Systems
Award Type: AAS	Initiating College: SCC
Effective First Year/Term: 2009 Fall	Program Availability: College Specific
Overall G.P.A.:2.00	Total Credits: 64-66
Major Code: 3235	CIPS Code: 52.04.07
Faculty Initiator: Pat Serrano	Instructional Council: Office Automation Systems (43)

(AAS in Office Automation Systems continued)

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

Restricted Electives: Credits: 9

CIS117DM	Microsoft Access: Database Management	3
CIS118AB	PowerPoint: Level I	3
CIS120++	Any Adobe module	3
+ CIS138DA	Desktop Design and Publishing Using Adobe InDesign	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS296WC	Cooperative Education	3
GBS175	Professional Development	3
MGT251	Human Relations in Business	3

Free Electives:None

General Education: Credits: ~~25-27~~ 22-24

CORE Credits: ~~45-47~~ 12-14

First-Year Composition

+ Any approved general education course from the First-Year Composition area.	6
+ ENG101 First-Year Composition (3) AND	
+ ENG102 First-Year Composition (3)	

Oral Communication

COM110	Interpersonal Communication (3) OR	
COM110AA	Interpersonal Communication Part I (1) AND	
COM110AB	Interpersonal Communication Part II (1) AND	
COM110AC	Interpersonal Communication Part III (1)	3

Critical Reading

+ CRE101 Critical and Evaluative Reading I (3) OR	_____	
	Equivalent by assessment.	3
	Met by CRE101 in Program Prerequisites Area	0

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 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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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
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Office Automation Systems**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **31**

Major Code: **5235**
 Initiator: **Pat Serrano**

CIPS Code: **52.04.07**
 Instructional Council: **Office Automation Systems (43)**

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

Proposed Total Program Credits To: 28

Description: The Certificate of Completion (CCL) in Office Automation Systems is composed of two semesters of course work, with emphasizing on microcomputer operations using a variety of applications, and learning to function as a professional in the office of today.

Program Notes:

++ indicates any module.

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

Admission Criteria: None

Program Prerequisites: Credits: 0-4

+ CRE101	Critical and Evaluative Reading (3) OR equivalent as indicated by assessment	0-3
BPC111AA	Computer Keyboarding I (1) OR ability to type 35 wpm	0-1

Required Courses: Credits: ~~34~~ 28

ACC111	Accounting Principles I	3
BPC/CIS121AB	MS-DOS Operating System (1) OR	
BPC/CIS121AE	Windows Operating System: Level I (+)	1
BPC/CIS114++	Any spreadsheet module	1
BPC110	Computer Usage and Applications	3
BPC/OAS135++	Any word processing module	2
BPC/OAS235++	Any advanced word processing module	2
CIS102	Interpersonal and Customer Service Skills for IT Professionals	1
CIS133AA	Internet/Web Development Level I-A	1
CIS133DA	Internet/Web Development I	3
GBS151	Introduction to Business	3
GBS175	Professional Development	3
OAS101	Computer Typing I: Keyboarding and Formatting	3
OAS108	Business English	3
OAS125	Introduction to the Professional Office	3
OAS296WC	Cooperative Education	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Culinary Arts
Award Type: AAS	Initiating College: SCC
Effective First Year Term: Spring 2010	Program Availability: College Specific
Overall G.P.A.: 2.0	Total Credits: 65-67

Major Code: 3564	CIPS Code: 12.05.03
Initiator: Karen Chalmers	Instructional Council Receiving Proposal: Hospitality (58)

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

Description: The Culinary Arts program is designed to train students who wish to become professional chefs ~~and~~ ~~books~~. It offers the option of a Certificate of Completion (CCL) or an Associate in Applied Science (AAS) degree in Culinary Arts. The program requires 35 hours per week in direct class participation. **Students must enroll concurrently in all courses in a block regardless of previously completed coursework.** Students rotate through all areas of food preparation at lunch and also at dinner. A casual lunch dining room is operated in the first semester and a formal dining room is operated in the evening by the second semester students, providing practical work experience to enhance the lab experience.

Program Notes:

Students must earn a grade of "C" or better in all courses within the program. **Students must enroll concurrently in all courses in a block, regardless of previously completed coursework.**

+ indicates course has prerequisite and/or corequisites.

++ indicates any module.

Admission Criteria:

Formal application and admission to the program is required. A special fee of \$475.00 is required each semester in addition to the regular tuition fees. Placement into 100-level English, reading and math classes on the ASSET test or completion of equivalent coursework.

Program Prerequisites:None

Required Courses: Credits: 34

Block 1

CUL115	Food Service Sanitation, Safety and Stewarding	2
CUL120	Food Costing, Purchasing and Inventory Control	2
+ CUL130	Hot Foods I	3
CUL140	Culinary Principles and Kitchen Management I	3
+ CUL150	Garde Manger I	2
+ CUL160	Bakery and Pastry Production I	3
+ CUL170	Dining Room Operations I	2

Block 2

CUL210	Menu Planning and Facilities Design	2
CUL220	Food Service Nutrition	2
+ CUL230	Hot Foods II	3
+ CUL240	Culinary Principles and Kitchen Management II	3
+ CUL250	Garde Manger II	2
+ CUL260	Bakery and Pastry Production II	2
+ CUL270	Dining Room Operations II	3

Restricted Electives: Credits: 6

CUL180	Food in History	3
CUL190	Catering Operations I	3
+ CUL235	Advanced Culinary Techniques I – Meats	2
+ CUL236	Advanced Culinary Techniques II – Seafood	2
+ CUL237	Advanced Culinary Techniques III – Game and Poultry	2
+ CUL245	Professional Kitchen Management Techniques	2
+ CUL255	Advanced Garde Manger I – Salads and Sandwiches	2

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM**
 Award Type: **AAS**
 Effective First Year Term: **Spring 2010**
 Overall G.P.A.: **2.0**

Program Title: **Culinary Arts**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **65-67**

Major Code: **3564**
 Initiator: **Karen Chalmers**

CIPS Code: **12.05.03**
 Instructional Council Receiving Proposal: **Hospitality (58)**

(AAS in Culinary Arts continued)

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

+ CUL256	Advanced Garde Manger II – Appetizers and Hors d'Oeuvres	2
+ CUL265	Professional Baking Techniques I – Base Products and Sauces	2
+ CUL266	Professional Baking Techniques II – Breads and Rolls	2
+ CUL267	Professional Baking Techniques III – Pastries, Pies and Cakes	2
+ CUL268	Professional Baking Techniques IV – Decorative and Design Work	2
+ CUL296++	Cooperative Education (any module)	1-4
+ CUL298++	Special Projects (any module)	1-3
FRE+++++	Any FRE French courses	1-4
HRM+++++	Any HRM Hospitality and Tourism Management courses	1-3
ITA+++++	Any ITA Italian courses	1-4
SPA+++++	Any SPA Spanish courses	1-4

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

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	3
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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 from the Humanities and Fine Arts area	3
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Natural Sciences

Any approved general education course from the Natural Sciences area	4
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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
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPM	Program Title: Culinary Arts
Award Type: CCL	Initiating College: SCC
Effective First Year Term: 2010 Spring	Program Availability: College Specific
Overall G.P.A.: 2.00	Total Credits: 34

Major Code: 5363	CIPS Code: 12.05.03
Initiator: Karen Chalmers	Instructional Council: Hospitality (58)

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

Description: The Culinary Arts program is designed to train students who wish to become professional chefs ~~and seek~~. It offers the option of a Certificate of Completion (CCL) or an Associate in Applied Science (AAS) degree in Culinary Arts. The program requires 35 hours per week in direct class participation. **Students must enroll concurrently in all courses in a block regardless of previously completed coursework.** Students rotate through all areas of food preparation at lunch and also at dinner. A casual lunch dining room is operated in the first semester and a formal dining room is operated in the evening by the second semester students, providing practical work experience to enhance the lab experience.

Program Notes:

Students must earn a grade of "C" or better in all courses within the program. **Students must enroll concurrently in all courses in a block, regardless of previously completed coursework.**

+ indicates course has prerequisite and/or corequisites.

++ indicates any module.

Admission Criteria: Formal application and admission to the program is required. A special fee of \$475.00 is required each semester in addition to the regular tuition fees. Placement into 100-level English, reading and math classes on the ASSET test or completion of equivalent coursework.

Program Prerequisites:None

Required Courses: Credits: 34

Block 1

CUL115	Food Service Sanitation, Safety and Stewarding	2
CUL120	Food Costing, Purchasing and Inventory Control	2
+ CUL130	Hot Foods I	3
CUL140	Culinary Principles and Kitchen Management I	3
+ CUL150	Garde Manger I	2
+ CUL160	Bakery and Pastry Production I	3
+ CUL170	Dining Room Operations I	2

Block 2

CUL210	Menu Planning and Facilities Design	2
CUL220	Food Service Nutrition	2
+ CUL230	Hot Foods II	3
+ CUL240	Culinary Principles and Kitchen Management II	3
+ CUL250	Garde Manger II	2
+ CUL260	Bakery and Pastry Production II	2
+ CUL270	Dining Room Operations II	3

Restricted Electives:None

Free Electives:None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: **OPM** Program Title: **Database Development**
 Award Type: **CCL** Initiating College: **SCC**
 Effective First Year/Term: **2009 Fall** Program Availability: **College Specific**
 Overall G.P.A.: **2.00** Total Credits: **29**

Major Code: **5083** CIPS Code: **11.08.02**
 Faculty Initiator: **Pat Serrano** Instructional Council: **Computer Information Systems (12)**

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

Proposed Total Program Credits To: 27

Description: The Certificate of Completion (**CCL**) in Database Development prepares students to design and implement the infrastructure for business solutions using database and programming tools. The Certificate focuses on administrative tasks and building database applications using programming skills such as data collection, query techniques and database creation.

Program Notes:

+ indicates course has prerequisite and/or corequisites

Admission Criteria: None.

Program Prerequisites: None

Required Courses: Credits: 29 27

	BPC/CIS117DM	Microsoft Access: Database Management	3
+	BPC/CIS217AM	Advanced Microsoft Access: Database Management	3
	CIS105	Survey of Computer Information Systems	3
+	CIS119DO	Introduction to Oracle: SQL and PL/SQL	3
+	CIS150	Programming Fundamentals	3
+	CIS159	Visual Basic Programming I (3) OR	3
+	CIS162AD	C#: Level I (3)	3
+	CIS164AB	Oracle: Developer PL/SQL Programming (3) OR	3
+	CIS276DA	MySQL Database (3) OR	
+	CIS276DB	SQL Server Database (3)	3
+	CIS164AC	Oracle: Developer Forms I (3) OR	3
+	CIS164AE	Oracle: Developer Reports (3)	3
+	CIS164AG	Oracle: Data Modeling and Relational Database Design	2
+	CIS166AC	Web Scripting with Active Server Pages (ASP).NET (3) OR	
+	CIS166AE	Web Scripting with PHP: Hypertext Preprocessor (PHP) (3)	3
+	CIS225AB	Object-Oriented Analysis and Design	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Software Development**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **36**

Major Code: **5084**
 Faculty Initiator: **Pat Serrano**

CIPS Code: **11.02.01**
 Instructional Council: **Computer Information Systems (12)**

(CCL in Software Development continued)

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

Proposed Total Program Credits To: 33

Restricted Electives: Credits: 6

	BPC/CIS133DA	Internet/Web Development Level I	3
+	CIS119DO	Introduction to Oracle: SQL	3
+	CIS166	Web Scripting/Programming	3
+	CIS166AC	Web Scripting with Active Server Pages (ASP).NET	3
+	CIS166AE	Web Scripting with PHP: Hypertext Preprocessor (PHP)	3
+	CIS217AM	Advanced Microsoft Access: Database Management	3
+	CIS224	Project Management Microsoft Project for Windows	3
+	CIS233DA	Internet/Web Development Level II	3
+	CIS235	e-Commerce	3
+	CIS+++++	Any Other Programming Language	3
	CIS+++++	Any CIS course not used to satisfy Required Courses area	3

Free Electives:None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Word Processing**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **18**

Major Code: **5221**
 Faculty Initiator: **Pat Serrano**

CIPS Code: **52.04.08**
 Instructional Council: **Office Automation Systems (43)**

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

Proposed Total Program Credits To: 20

Description: The **Certificate of Completion (CCL)** in Word Processing Program seeks to prepare individuals to assume productive positions in the field of word processing. Integrated concepts of modern office systems are included in the program.

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: Credits: 0-1

BPC111AA Computer Keyboarding I (1) OR ability to type 35 wpm 0-1

Required Courses: Credits: 18-20

BPC/CIS121AB	MS-DOS Operating System (1) OR	
BPC/CIS121AE	Windows Operating System: Level I (1)	1
BPC110	Computer Usage and Applications	3
BPC/CIS121AE	Windows Operating System: Level I	1
+ BPC138++	Any Desktop Publishing module	3
+ BPC/OAS135++	Any word processing module-	2
+ BPC/OAS235++	Any advanced word processing module-	2
CIS133AA	Internet/Web Development Level I-A	1
CIS133DA	Internet/Web Development Level I	3
OAS101	Computer Typing I: Keyboarding and Formatting	3
OAS108	Business English	3
OAS125	Introduction to the Professional Office	3

Restricted Electives: None

Free Electives: None

General Education: None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCCDC GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Personal Computer Applications**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **36-38**

Major Code: **5624**
 Faculty Initiator: **Pat Serrano**

CIPS Code: ~~52.12.01~~ **52.0401**
 Instructional Council: **Computer Information Systems (12)**

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

Proposed Total Program Credits To: 30

Description: The **Certificate of Completion (CCL)** in Personal Computer Applications program is designed to provide computer skills in the areas of word processing, spreadsheets, database management, operating systems, and other software. Additional areas of study include English, mathematics, and systems analysis and design. This program is designed to provide students with basic business and computer applications skills necessary for employment in a wide variety of entry-level positions in business.

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: 24-26/18

BPC110	Computer Usage and Applications	3
BPC111AA	Computer Keyboarding I (1) OR	1
OAS101AA	Computer Typing I: Keyboard Mastery (1)	1
BPC/CIS114++	Any spreadsheet modules. (1)	2
BPC/CIS114AE	Excel: Level I	1
+ BPC/CIS114BE	Excel: Level II	1
BPC/CIS117DM	Microsoft Access: Database Management	3
BPC/CIS117++	Any Database Management modules. (1-3) OR	3
CIS119++	Any Oracle Database Management modules. (1-3)	3
BPC/CIS118AB	PowerPoint: Level I	1
BPC/CIS121AB	MS-DOS Operating System	1
BPC/CIS121AE	Windows Operating System: Level I	1
CIS133AA	Internet/Web Development Level I-A	1
+ CIS133BA	Internet/Web Development Level I-B	1
BPC/OAS135++DK	Any Word Processing DD or DK module. Word: Level I	2
+ BPC/OAS235++DK	Any Advanced Word Processing DD or DK module. Word: Level II	2
CIS133DA	Internet/Web Development Level I	3
+ ENG101	First-Year Composition	3
GBS131	Business Calculations (3) OR	3
+ MAT102	Mathematical Concepts/Applications (3) OR	3
+ MAT120	Intermediate Algebra (5) OR	5
+ MAT122	Intermediate Algebra (3)	3-5

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Personal Computer Applications**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **36-38**

Major Code: **5624**
 Faculty Initiator: **Pat Serrano**

CIPS Code: ~~52.12.01~~ **52.0401**
 Instructional Council: **Computer Information Systems (12)**

(CCL in Personal Computer Applications continued)

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

Proposed Total Program Credits To: 30

Restricted Electives: Credits: 12

ACC111	Accounting Principles I	3
+ ACC115	Computerized Accounting	2
BPC125	Microcomputer Set Up and Maintenance	1
BPC/CIS120DB	Computer Graphics: Adobe Illustrator	3
BPC/CIS120DC	Flash: Digital Animation	3
BPC/CIS120DF	Computer Graphics: Adobe Photoshop	3
+ CIS138DA	Desktop Design and Publishing Using Adobe InDesign	3
+ CIS233DA	Internet/Web Development Level II	3
+ CIS2++++	Any 200-level Computer Information System course	1-3
+ BPC138++	Any Desktop Publishing module.	3
+ BPC170	Computer Maintenance I: A+ Prep	3
+ BPC/OAS235++	Any additional Advanced Word Processing module.	2
+ CIS190	Introduction to Local Area Networks	3
CIS+++++	Any other CIS courses.	1-3
+ MST150	Microsoft Windows Professional	3

Free Electives:None

General Education:None

ATTACHMENT: OPM
 OCCUPATIONAL PROGRAM MODIFICATIONS: MARICOPA COMMUNITY COLLEGES
 MCCC D GOVERNING BOARD DATE: 6/23/09

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

Program Title: **Computer Hardware and Network Support**
 Initiating College: **SCC**
 Program Availability: **College Specific**
 Total Credits: **23**

Major Code: **5909**
 Faculty Initiator: **Pat Serrano**

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

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

Description: **The Certificate of Completion (CCL) in Computer Hardware and Network Support is designed to prepare students for entry-level network technician jobs and to help prepare them for multiple industry certification examinations.** As computer and telecommunications technologies become more complex, customer service/technical support is becoming increasingly important. Companies desire to hire highly qualified and motivated individuals in this expanding field. ~~The Certificate of Completion in Computer Hardware and Network Support is designed to prepare students for entry-level network technician jobs and to help prepare them for multiple industry certification examinations.~~

Program Notes:

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

Admission Criteria: None.

Program Prerequisites: None

Required Courses: Credits: 23

	BPC/CIS121AB	MS-DOS Operating System Microsoft Command Line Operations	1
+	BPC170	Computer Maintenance I: A+ Prep	3
+	BPC270	Microcomputer Maintenance II	3
	CIS102	Customer Service/Technical Support	1
	CIS105	Survey of Computer Information Systems	3
	CIS126DA	UNIX Operating System (3) OR	3
	CIS126DL	Linux Operating System (3)	3
+	CIS190	Introduction to Local Area Network (3) OR	
	MST140	Microsoft Networking Essentials (3)	3
+	CIS296WC	Cooperative Education (3) OR	
+	CIS298AC	Special Projects (3)	3
+	CIS191	Novell NetWare System Administration (3) OR	
+	MST150	Microsoft Windows Professional (3)	3
+	CIS240	Local Area Network Planning and Design	3

Restricted Electives:

Free Electives:

General Education:

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPD	Program Title:Industrial Education
Award Type:AAS	Initiating College:GCC
Effective First Year Term:2007 Fall	Program Availability:Shared by: MCC, GCC
Effective Last Year Term:2009 Summer II	Total Credits:66
Overall G.P.A.:2.0	

Major Code:3061	CIPS Code:13.13.20
Faculty Initiator:Carlos Nuñez	Instructional Council:Applied Technology (57)

Rationale:Program has little demand at GCC and has never been awarded.

Proposal Development Type: OPD	Program Title:Animation: Drawing for Animation
Award Type:CCL	Initiating College:GCC
Effective First Year Term: 2009 Spring	Program Availability:College Specific
Effective Last Year Term: 2009 Summer II	Total Credits:22
Overall G.P.A.:2.0	

Major Code:5537	CIPS Code: 11.08.03
Faculty Initiator:Mirta Hamilton	Instructional Council: Art (17)

Rationale: Restructuring of GCC Graphic Design programs renders this Certificate obsolete.

Proposal Development Type: OPD	Program Title:Animation: Advanced Imaging and Animation
Award Type:CCL	Initiating College:GCC
Effective First Year Term:2009 Spring	Program Availability:College Specific
Effective Last Year Term:2009 Summer II	Total Credits:17
Overall G.P.A.:2.0	

Major Code:5538	CIPS Code: 11.08.03
Faculty Initiator:Mirta Hamilton	Instructional Council: Art (17)

Rationale: Restructuring of GCC Graphic Design programs renders this Certificate obsolete.

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type: **OPD**
Award Type: **AAS**
Effective First Year Term: **2004 Fall**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Supply Chain and Operations Management**
Initiating College: **GWCC**
Program Availability: **College Specific**
Total Credits: **62**

Major Code: **3058**
Faculty Initiator: **Heidi Hutchins**

CIPS Code: **52.02.03**
Instructional Council: **Business/Management (03)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

Proposal Development Type: **OPD**
Award Type: **AAS**
Effective First Year Term: **2009 Spring**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Aerospace Manufacturing Technology**
Initiating College: **GWCC (Mor)**
Program Availability: **College Specific**
Total Credits: **73**

Major Code: **3774**
Faculty Initiator: **Clyde Perry**

CIPS Code: **15.08.01**
Instructional Council: **Applied Technology (57)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

Proposal Development Type: **OPD**
Award Type: **CCL**
Effective First Year Term: **2009 Spring**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Supply Chain and Operations Management**
Initiating College: **GWCC (Mor)**
Program Availability: **College Specific**
Total Credits: **18**

Major Code: **5058**
Faculty Initiator: **Heidi Hutchins**

CIPS Code: **52.02.03**
Instructional Council: **Business/Management (03)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type: **OPD**
Award Type: **CCL**
Effective First Year Term: **2009 Spring**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Home Improvement Retail Operations: Flooring**
Initiating College: **GWCC (Mor)**
Program Availability: **College Specific**
Total Credits: **15.5**

Major Code: **5185**
Faculty Initiator: **Kerry Vrabel**

CIPS Code: **36.01.05**
Instructional Council: **Occupational Administrators (53)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

Proposal Development Type: **OPD**
Award Type: **CCL**
Effective First Year Term: **2009 Spring**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Home Improvement Retail Operations: Kitchen**
Initiating College: **GWCC (Mor)**
Program Availability: **College Specific**
Total Credits: **22.5**

Major Code: **5186**
Faculty Initiator: **Kerry Vrabel**

CIPS Code: **36.01.05**
Instructional Council: **Occupational Administrators (53)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

Proposal Development Type: **OPD**
Award Type: **CCL**
Effective First Year Term: **2009 Spring**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Home Improvement Retail Operations: Millworks**
Initiating College: **GWCC (Mor)**
Program Availability: **College Specific**
Total Credits: **14.5**

Major Code: **5187**
Faculty Initiator: **Kerry Vrabel**

CIPS Code: **36.01.05**
Instructional Council: **Occupational Administrators (53)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type: **OPD**
Award Type: **CCL**
Effective First Year Term: **1994 Fall**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Pharmacy Technology**
Initiating College: **GWCC (Mor)**
Program Availability: **College Specific**
Total Credits: **21-22**

Major Code: **5319**
Faculty Initiator: **Kerry Vrabel**

CIPS Code: **51.0805**
Instructional Council: **Allied Health (51)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

Proposal Development Type: **OPD**
Award Type: **CCL**
Effective First Year Term: **2009 Spring**
Effective Last Year Term: **2009 Summer II**
Overall G.P.A.: **2.00**

Program Title: **Education Technology**
Initiating College: **GWCC (Mor)**
Program Availability: **College Specific**
Total Credits: **21-22**

Major Code: **5761**
Faculty Initiator: **Kerry Vrabel**

CIPS Code: **13.12.99**
Instructional Council: **Computer Information Systems (12)**

Rationale: **GateWay has determined that this is no longer a functioning program at the college and thus should be deleted.**

ATTACHMENT: OPD
OCCUPATIONAL PROGRAM DELETIONS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type: OPD	Program Title: Journalism
Award Type: CCL	Initiating College: SCC
Effective First Year Term: 2008 Fall	Program Availability: Shared by: PVCC, CGCC (Mor), GCC, PC, SCC, SMCC
Effective Last Year Term: 2009 Summer I	Total Credits: 18
Major Code: 5466	CIPS Code: 09.04.01
Faculty Initiator: Julie Knapp	Instructional Council: Journalism/Telecommunications (44)

Rationale: **This certificate program is being deleted at SCC because of inadequate student enrollment and changes in industry needs.**

ATTACHMENT: OPD-MOR

OCCUPATIONAL PROGRAM DELETIONS - MORATORIUM PROGRAMS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type:OPD-MOR Program Title: **Teacher Assisting**
Award Type/Major Code: **AAS/3008** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GWCC (Mor)**

Proposed Program Availability To: EMCC

Proposal Development Type:OPD-MOR Program Title: **Linux Networking Administration**
Award Type/Major Code: **AAS/3013** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GCC, GWCC (Mor), MCC**

Proposed Program Availability To: Shared by: EMCC, GCC, MCC

Proposal Development Type:OPD-MOR Program Title: **Music Business**
Award Type/Major Code: **AAS/3017** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, GCC, GWCC (Mor), MCC, PC, PVCC, SCC, SMCC**

Proposed Program Availability To: Shared by: CGCC, GCC, MCC, PC, PVCC, SCC, SMCC

Proposal Development Type:OPD-MOR Program Title: **Emergency Management**
Award Type/Major Code: **AAS/3018** College(s) Deleting: **GWCC, RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC (Mor), GCC, GWCC (Mor), MCC, PVCC, RSC (Mor), SMCC**

Proposed Program Availability To: Shared by: CGCC (Mor), GCC, MCC, PVCC, SMCC

Proposal Development Type:OPD-MOR Program Title: **General Business-Insurance**
Award Type/Major Code: **AAS/3033** College(s) Deleting: **PC**
Effective Last Year Term: **2007 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Strength and Conditioning Personal Trainer**
Award Type/Major Code: **AAS/3059** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, EMCC, GCC, GWCC (Mor), MCC, PVCC, SCC, SMCC**

Proposed Program Availability To: Shared by: CGCC, EMCC, GCC, MCC, PVCC, SCC, SMCC

ATTACHMENT: OPD-MOR

OCCUPATIONAL PROGRAM DELETIONS - MORATORIUM PROGRAMS: MARICOPA COMMUNITY COLLEGES
MCCCD GOVERNING BOARD DATE: 6/23/09

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3072**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Middle Management**
College(s) Deleting: **PVCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3132**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Accounting**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3223**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Electronics Technology**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3225**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Electronics Engineering Technology**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3232**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Electronics/Microprocessor Technology**
College(s) Deleting: **MCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3488**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Diesel/Heavy Equipment Technology**
College(s) Deleting: **MCC**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

OCCUPATIONAL PROGRAM DELETIONS - MORATORIUM PROGRAMS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3501**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Civil CAD Technology**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3516**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Manufacturing Design Technology**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3671**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Public Relations**
College(s) Deleting: **SCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3681**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Environmental Health and Safety Technology**
College(s) Deleting: **PVCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3727**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, EMCC, GWCC, MCC, PVCC (Mor), RSC**

Program Title: **Organizational Leadership**
College(s) Deleting: **PVCC**

Proposed Program Availability To: Shared by: CGCC, EMCC, GWCC, MCC, RSC

Proposal Development Type:OPD-MOR
Award Type/Major Code: **AAS/3740**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PVCC (Mor)**

Program Title: **International Business**
College(s) Deleting: **EMCC, GCC, GWCC, PVCC**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

OCCUPATIONAL PROGRAM DELETIONS - MORATORIUM PROGRAMS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type:OPD-MOR Program Title: **Adult Corrections**
Award Type/Major Code: **AAS/3760** College(s) Deleting: **PC**
Effective Last Year Term: **2004 Fall**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Tribal Court Advocacy**
Award Type/Major Code: **AAS/3772** College(s) Deleting: **PC**
Effective Last Year Term: **2004 Summer I**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Microsoft Networking Technology**
Award Type/Major Code: **AAS/3778** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GCC, GWCC, PC (Mor), PVCC, RSC (Mor), SCC**

Proposed Program Availability To: Shared by: EMCC, GCC, GWCC, PC (Mor), PVCC, SCC

Proposal Development Type:OPD-MOR Program Title: **Recreational Resources and Facilities
Management**
Award Type/Major Code: **AAS/3818** College(s) Deleting: **PC**
Effective Last Year Term: **2006 Summer I**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Justice Agencies Support**
Award Type/Major Code: **AAS/3833** College(s) Deleting: **GCC, MCC,**
Effective Last Year Term: **2009 Summer II**
Award Type/Major Code: **AAS/3833** College(s) Deleting: **PC**
Effective Last Year Term: **2007 Summer I**

Program Availability: **Shared by: GCC (Mor), MCC, PC (Mor)**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

OCCUPATIONAL PROGRAM DELETIONS - MORATORIUM PROGRAMS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type:OPD-MOR Program Title: **Microsoft Applications Development**
Award Type/Major Code: **AAS/3838** College(s) Deleting: **EMCC, GCC, GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC**

Proposed Program Availability To: Shared by: MCC, PVCC, SCC

Proposal Development Type:OPD-MOR Program Title: **Programming and System Analysis**
Award Type/Major Code: **AAS/3844** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GCC, GWCC (Mor), PC, PVCC, SCC**

Proposed Program Availability To: Shared by: EMCC, GCC, PC, PVCC, SCC

Proposal Development Type:OPD-MOR Program Title: **Language and Literary Culture of the USA**
Award Type/Major Code: **AC/6221** College(s) Deleting: **SCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, GCC, MCC, PVCC, RSC, SCC (Mor)**

Proposed Program Availability To: Shared by: CGCC, GCC, MCC, PVCC, RSC

Proposal Development Type:OPD-MOR Program Title: **Justice Agencies Support Level II**
Award Type/Major Code: **CCL/5003** College(s) Deleting: **PC**
Effective Last Year Term: **2007 Summer I**
Program Availability: **College Specific**

Proposed Program Availability To: Shared by: MCC, PC (Mor)

Proposal Development Type:OPD-MOR Program Title: **Justice Agencies Support Level I**
Award Type/Major Code: **CCL/5004** College(s) Deleting: **GCC, MCC**
Effective Last Year Term: **2009 Summer II**
Award Type/Major Code: **CCL/5004** College(s) Deleting: **PC**
Effective Last Year Term: **2007 Summer I**

Program Availability: **Shared by: GCC (Mor), MCC, PC (Mor)**
Proposed Program Availability To: Shared by: MCC, PC (Mor)

Proposal Development Type:OPD-MOR Program Title: **Justice Agencies Support Level II**
Award Type/Major Code: **CCL/5006** College(s) Deleting: **GCC, MCC**
Effective Last Year Term: **2009 Summer II**
Award Type/Major Code: **CCL/5006** College(s) Deleting: **PC**
Effective Last Year Term: **2007 Summer I**

Program Availability: **Shared by: GCC (Mor), MCC, PC (Mor)**
Proposed Program Availability To: Shared by: MCC, PC (Mor)

Proposal Development Type:OPD-MOR
Management

Program Title: **Early Childhood Small Business**

Award Type/Major Code: **CCL/5023**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

College(s) Deleting: **SCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5029**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **AS/400 Operations**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5030**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **AS/400 Applications Development**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5035**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Credit Card: Customer Service**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Skills
Award Type/Major Code: **CCL/5036**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Office User Specialist Preparation**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5038**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Novell Engineer**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

OCCUPATIONAL PROGRAM DELETIONS - MORATORIUM PROGRAMS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5039**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Systems Professional**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5040**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Solutions Developer**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5046**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Technology Helpdesk Support**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5048**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, EMCC, GCC, GWCC (Mor), MCC, PC, PVCC, SCC**

Program Title: **Programming and System Analysis**
College(s) Deleting: **GWCC**

Proposed Program Availability To: Shared by: CGCC, EMCC, GCC, MCC, PC, PVCC, SCC

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5067**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GCC (Mor)**

Program Title: **Oracle Applications Developer**
College(s) Deleting: **EMCC, GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5074**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Management and Supervision Level**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

OCCUPATIONAL PROGRAM DELETIONS - MORATORIUM PROGRAMS: MARICOPA COMMUNITY COLLEGES
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Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5091**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Management and Supervision Level II**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5099**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **e-Commerce/Website Management**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5100**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Project Management/Website Management**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5103**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Database Management**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5108**
Effective Last Year Term: **2008 Summer I**
Program Availability: **College Specific**

Program Title: **Assisted Living: Personal Care Services for Certified**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5128**
Effective Last Year Term: **2006 Spring**
Program Availability: **Shared by: MCC, PC (Mor)**

Program Title: **Reading Specialist Endorsement**
College(s) Deleting: **PC**

Proposed Program Availability To: MCC

Proposal Development Type:OPD-MOR Program Title: **Accounting**
Award Type/Major Code: **CCL/5130** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Credit Union Management I**
Award Type/Major Code: **CCL/5148** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Web Design**
Award Type/Major Code: **CCL/5159** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: GCC, GWCC (Mor), PVCC**

Proposed Program Availability To: Shared by: GCC, PVCC

Proposal Development Type:OPD-MOR Program Title: **Community Health Advocate, Diabetes**
Award Type/Major Code: **CCL/5197** College(s) Deleting: **SCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: MCC, SCC (Mor)**

Proposed Program Availability To: MCC

Proposal Development Type:OPD-MOR Program Title: **Linux Professional**
Award Type/Major Code: **CCL/5204** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, EMCC, GCC, GWCC (Mor), MCC, PVCC**

Proposed Program Availability To: Shared by: CGCC, EMCC, GCC, MCC, PVCC

Proposal Development Type:OPD-MOR Program Title: **Linux Associate**
Award Type/Major Code: **CCL/5219** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GCC, GWCC (Mor), MCC**

Proposed Program Availability To: Shared by: EMCC, GCC, MCC

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR Program Title: **Electronics Manufacturing Technology**
Award Type/Major Code: **CCL/5224** College(s) Deleting: **GCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Linux Networking Administration**
Award Type/Major Code: **CCL/5225** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GCC, GWCC (Mor), MCC**

Proposed Program Availability To: Shared by: EMCC, GCC, MCC

Proposal Development Type:OPD-MOR Program Title: **Manufacturing Technology**
Award Type/Major Code: **CCL/5256** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Music Business**
Award Type/Major Code: **CCL/5258** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, GCC, GWCC (Mor), MCC, PC, PVCC, SCC, SMCC**

Proposed Program Availability To: Shared by: CGCC, GCC, MCC, PC, PVCC, SCC, SMCC

Proposal Development Type:OPD-MOR Program Title: **General Business**
Award Type/Major Code: **CCL/5260** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Emergency Management**
Award Type/Major Code: **CCL/5304** College(s) Deleting: **GWCC, RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC (Mor), GCC, GWCC (Mor), MCC, PVCC, RSC (Mor), SMCC**

Proposed Program Availability To: Shared by: CGCC (Mor), GCC, MCC, PVCC, SMCC

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR Program Title: **Fiduciary Practices**
Award Type/Major Code: **CCL/5330** College(s) Deleting: **PC**
Effective Last Year Term: **2007 Spring**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Pharmacy Benefits Management: Customer Service**
Award Type/Major Code: **CCL/5335** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Pharmacy: Customer Service**
Award Type/Major Code: **CCL/5348** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: RSC (Mor), SMCC**

Proposed Program Availability To: SMCC

Proposal Development Type:OPD-MOR Program Title: **Police Academy Preparation Level II**
Award Type/Major Code: **CCL/5372** College(s) Deleting: **SCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Early Childhood Lead Teacher**
Award Type/Major Code: **CCL/5373** College(s) Deleting: **GCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **General Business-Insurance Level I**
Award Type/Major Code: **CCL/5381** College(s) Deleting: **PC**
Effective Last Year Term: **2007 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5382**
Effective Last Year Term: **2007 Summer II**
Program Availability: **College Specific**

Program Title: **Home Inspection: Basic Inspector**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5386**
Effective Last Year Term: **2007 Summer II**
Program Availability: **College Specific**

Program Title: **Home Inspection: Business Owner Operator Inspector**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5387**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Law Enforcement Supervision**
College(s) Deleting: **SCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5389**
Effective Last Year Term: **2007 Summer II**
Program Availability: **College Specific**

Program Title: **General Business-Insurance Level II**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5430**
Effective Last Year Term: **2007 Summer II**
Program Availability: **College Specific**

Program Title: **Advanced Interior Design**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5445**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, EMCC, GCC, GWCC (Mor), MCC, PVCC, SCC, SMCC**

Program Title: **Strength and Conditioning Personal Trainer**
College(s) Deleting: **GWCC**

Proposed Program Availability To: Shared by: CGCC, EMCC, GCC, GWCC (Mor), MCC, PVCC, SCC, SMCC

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR Program Title: **Microsoft Desktop Support
Technology**

Award Type/Major Code: **CCL/5473** College(s) Deleting: **GWCC**

Effective Last Year Term: **2009 Summer II**

Program Availability: **Shared by: EMCC, GCC, GWCC (Mor), MCC, PVCC, SCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Intermediate Emergency Medical Technology**

Award Type/Major Code: **CCL/5474** College(s) Deleting: **GCC**

Effective Last Year Term: **2009 Summer II**

Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Donor Phlebotomy**

Award Type/Major Code: **CCL/5489** College(s) Deleting: **PC**

Effective Last Year Term: **2009 Summer I**

Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Diesel/Heavy Equipment Trainee**

Award Type/Major Code: **CCL/5503** College(s) Deleting: **MCC**

Effective Last Year Term: **2009 Summer II**

Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Diesel/Heavy Equipment Specialist**

Award Type/Major Code: **CCL/5507** College(s) Deleting: **MCC**

Effective Last Year Term: **2009 Summer II**

Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Diesel/Heavy Equipment Maintenance and
Repair**

Award Type/Major Code: **CCL/5511** College(s) Deleting: **MCC**

Effective Last Year Term: **2009 Summer II**

Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5651**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **CAD-Based Design Technology**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5664**
Effective Last Year Term: **2005 Spring**
Program Availability: **College Specific**

Program Title: **EKG/Telemetry Technician**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5672**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Public Relations**
College(s) Deleting: **SCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5681**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Environmental Health and Safety Technology**
College(s) Deleting: **PVCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5697**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Recreational Vehicle Technology**
College(s) Deleting: **MCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5727**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GWCC, MCC, RSC**

Program Title: **Quality Process Leadership**
College(s) Deleting: **EMCC**

Proposed Program Availability To: Shared by: GWCC, MCC, RSC

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR Program Title: **Quality Customer Service**
Award Type/Major Code: **CCL/5728** College(s) Deleting: **EMCC, GCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GCC (Mor), GWCC, RSC**

Proposed Program Availability To: Shared by: GWCC, RSC

Proposal Development Type:OPD-MOR Program Title: **Optical: Customer Service**
Award Type/Major Code: **CCL/5735** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Import/Export Trade**
Award Type/Major Code: **CCL/5740** College(s) Deleting: **EMCC, GWCC, PVCC, RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GWCC (Mor), MCC, PVCC (Mor), RSC (Mor)**

Proposed Program Availability To: MCC

Proposal Development Type:OPD-MOR Program Title: **International Business**
Award Type/Major Code: **CCL/5742** College(s) Deleting: **EMCC, GCC, GWCC, RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), PC (Mor), PVCC, RSC (Mor)**

Proposed Program Availability To: Shared by: PC (Mor), PVCC,

Proposal Development Type:OPD-MOR Program Title: **Correctional Service Officer Training**
Award Type/Major Code: **CCL/5751** College(s) Deleting: **PC**
Effective Last Year Term: **2004 Fall**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Correctional Program Officer Training**
Award Type/Major Code: **CCL/5754** College(s) Deleting: **PC**
Effective Last Year Term: **2004 Fall**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5757**
Effective Last Year Term: **2004 Fall**
Program Availability: **College Specific**

Program Title: **Parole Officer Training**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5760**
Effective Last Year Term: **2004 Fall**
Program Availability: **College Specific**

Program Title: **Corrections Supervision/Management**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5771**
Effective Last Year Term: **2008 Summer I**
Program Availability: **College Specific**

Program Title: **Assisted Living: Management**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5777**
Effective Last Year Term: **2006 Summer I**
Program Availability: **College Specific**

Program Title: **Recreational Resources and Facilities
Management:**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5779**
Effective Last Year Term: **2006 Summer I**
Program Availability: **College Specific**

Program Title: **Recreational Resources and Facilities
Management:**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5781**
Effective Last Year Term: **2009 Summer I**
Program Availability: **College Specific**

Program Title: **Recreational Resources and Facilities
Management:**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR Program Title: **Recreational Resources and Facilities Management:**
Award Type/Major Code: **CCL/5783** College(s) Deleting: **PC**
Effective Last Year Term: **2006 Summer I**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Recreational Resources and Facilities Management:**
Award Type/Major Code: **CCL/5783** College(s) Deleting: **PC**
Effective Last Year Term: **2006 Summer I**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Tribal Court Advocacy I**
Award Type/Major Code: **CCL/5792** College(s) Deleting: **PC**
Effective Last Year Term: **2004 Summer I**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Recruit Firefighters**
Award Type/Major Code: **CCL/5798** College(s) Deleting: **GCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Total Quality Management**
Award Type/Major Code: **CCL/5808** College(s) Deleting: **GCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Microsoft Applications Development**
Award Type/Major Code: **CCL/5838** College(s) Deleting: **EMCC, GCC, GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC (Mor), GCC (Mor), GWCC (Mor), MCC, PVCC, SCC**

Proposed Program Availability To: Shared by: MCC, PVCC, SCC

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR Program Title: **Police Academy Preparation**
Award Type/Major Code: **CCL/5839** College(s) Deleting: **GCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Microsoft Product Specialist**
Award Type/Major Code: **CCL/5841** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: CGCC, EMCC, GCC, GWCC, PC (Mor), PVCC, RSC (Mor), SCC**

Proposed Program Availability To: Shared by: CGCC, EMCC, GCC, GWCC, PC (Mor), PVCC, SCC

Proposal Development Type:OPD-MOR Program Title: **Microsoft Systems Engineer**
Award Type/Major Code: **CCL/5843** College(s) Deleting: **RSC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GCC, GWCC, PC (Mor), PVCC, RSC (Mor), SCC**

Proposed Program Availability To: Shared by: EMCC, GCC, GWCC, PC (Mor), PVCC, SCC

Proposal Development Type:OPD-MOR Program Title: **Microsoft Systems Administration**
Award Type/Major Code: **CCL/5852** College(s) Deleting: **GWCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **Shared by: EMCC, GCC, GWCC (Mor), PC (Mor), PVCC, SCC**

Proposed Program Availability To: Shared by: EMCC, GCC, PC (Mor), PVCC, SCC

Proposal Development Type:OPD-MOR Program Title: **Medical Billing**
Award Type/Major Code: **CCL/5855** College(s) Deleting: **PC**
Effective Last Year Term: **2008 Summer I**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR Program Title: **Judicial Studies**
Award Type/Major Code: **CCL/5863** College(s) Deleting: **SCC**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5925**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Safety, Health and Environmental Studies**
College(s) Deleting: **PVCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5927**
Effective Last Year Term: **2008 Summer I**
Program Availability: **College Specific**

Program Title: **Assisted Living: Supervisory Care Services**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5929**
Effective Last Year Term: **2008 Summer I**
Program Availability: **College Specific**

Program Title: **Assisted Living: Personal Care Services**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5931**
Effective Last Year Term: **2008 Summer I**
Program Availability: **College Specific**

Program Title: **Assisted Living: Directed Care Services**
College(s) Deleting: **PC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5937**
Effective Last Year Term: **2009 Summer II**
Program Availability: **College Specific**

Program Title: **Electronic Pre-Press**
College(s) Deleting: **GCC**

Proposed Program Availability To: Program No Longer Offered

Proposal Development Type:OPD-MOR
Award Type/Major Code: **CCL/5970**
Effective Last Year Term: **2009 Summer II**
Program Availability:

Program Title: **Telecommunications: Customer Service**
College(s) Deleting: **RSC**

Proposed Program Availability To: Program No Longer Offered

ATTACHMENT: OPD-MOR

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Proposal Development Type:OPD-MOR
Entertainment

Program Title: **The Maricopa Institute for Arts and**

Award Type/Major Code: **CCL/5987**

College(s) Deleting: **SCC**

Effective Last Year Term: **2009 Summer II**

Program Availability: **College Specific**

Proposed Program Availability To: Program No Longer Offered
