

Madison College Catalog

2016-2017

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Program Number: 101011

Accounting

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ACCTG 10101111	Accounting 1 - Principles	4	4-0
ACCTG 10101139	QuickBooks-Beginning	1	0.5-1
BUSADM 10102134	Business Organization, Management, and Ethics	3	3-0
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
Second Semester			
ACCTG 10101113	Accounting 2 - Principles	4	4-0
ACCTG 10101123	Tax 1	4	4-0
ACCTG 10101141	QuickBooks-Intermediate	1	0.5-1
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
COMM 20810205	Small Group & Interpersonal Communications	3	3-0
Third Semester			
ACCTG 10101121	Accounting 3-Intermediate	4	4-0
ACCTG 10101125	Cost Management	4	4-0
ACCTG 10101138	Accounting And Payroll Systems	3	2-2
BUSADM 10102160	Business Law 1	3	3-0
SPEECH 10801198	Speech	3	3-0
Fourth Semester			
ACCTG 10101122	Accounting 4-Intermediate	4	4-0
ACCTG 10101137	Computerized Accounting Applications	2	1.5-1
ACCTG 10101142	Accounting Capstone	3	2-2
FINANCE 10114130	Personal Finance	3	3-0
ADMINPRF 10106190	Professional Development	1	1-0.5
ENGLISH 10801197	Technical Reporting	3	3-0



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Accounting Assistant

Program Number: 311011

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ACCTG 10101111	Accounting 1 - Principles	4	4-0
BUSADM 10102134	Business Organization, Management, and Ethics	3	3-0
ACCTG 10101139	QuickBooks-Beginning	1	0.5-1
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
Second Semester			
ACCTG 10101113	Accounting 2 - Principles	4	4-0
ACCTG 10101123	Tax 1	4	4-0
ACCTG 10101141	QuickBooks-Intermediate	1	0.5-1
COMPSOFT 10103139	Excel - Intermediate	1	0.27-1.5
ADMINPRF 10106190	Professional Development	1	1-0.5
COMM 10801196	Oral/Interpersonal Communication	3	3-0



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Addiction Studies

Program Number: 305201

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
HUMSVC 10520116	Group Work Skills	3	3-0	
HUMSVC 10520117	Interviewing	3	3-0	
HUMSVC 10520135	Issues in Alcohol and Other Drug Abuse	3	3-0	
HUMSVC 10520136	Counseling Alcoholics and Other Drug Abusers	3	3-0	
Second Semester				
HUMSVC 10520141	Intro Comm Mental Health	3	3-0	
HUMSVC 10520142	Psychopharmacology	3	3-0	
HUMSVC 10520150	AODA Special Populations	3	3-0	
HUMSVC 10520157	Human Services Counseling Skills	3	3-0	



Administrative Professional

Program Number: 101066

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
ADMINPRF 10106102	Introduction to Office Professions	1	1-0.5
ADMINPRF 10106107	Business Document Applications	3	1-4
ADMINPRF 10106139	Keyboard Skillbuilding	1	0.27-1.5
ADMINPRF 10106182	Information Technology Concepts	3	2-2
ADMINPRF 10106231	Business Presentations and Publications	3	1-4
Second Semester			
COMPSOFT 10103165	Outlook	1	0.27-1.5
ADMINPRF 10106108	Proofreading And Editing	3	2-2
ADMINPRF 10106109	Business Spreadsheet Applications	3	1-4
ADMINPRF 10106133	Document Formatting	2	1-2
ADMINPRF 10106164	Customer Contact Skills	1	1-0.5
ADMINPRF 10106172	Administrative Office Management	3	2-2
ADMINPRF 10106240	Business Information Management	3	1-4
Third Semester			
COMM 10801196	Oral/Interpersonal Communication	3	3-0
SOC 10809172	Introduction to Diversity Studies	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
ACCTG 10101106	Accounting Fundamentals	3	3-0
COMPSOFT 10103169	Collaboration Tools	1	0.27-1.5
ADMINPRF 10106106	Business Writing and Research	3	2-2
ADMINPRF 10106190	Professional Development	1	1-0.5
Fourth Semester			
SPEECH 10801198	Speech	3	3-0
ECON 10809195	Economics	3	3-0
ADMINPRF 10106134	Software Projects	2	0.5-3
ADMINPRF 10106186	Introduction to Project Management	2	0.5-3
ADMINPRF 10106194	Career Management	1	1-0.5
ADMINPRF 10106195	Internship - Administrative Professional & Medical Administrative Specialist	1	0-0



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Effective: 2016-2017

Advanced EMT

Program Number: 305316

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
Courses EMS 30531360	Advanced Emergency Medical Technician	4	4-2	



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Agricultural Equipment Technology

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
AGMECH 10070176	Electrical Systems	5	3-4
AGMECH 10070181	Implements 1	4	2-0
WELD 10442126	Metal Repair Techniques	2	1-0
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804107	College Mathematics	3	2-2
Second Semester			
AGMECH 10070178	Implements 2	3	1-4
AGMECH 10070183	Hydraulics	4	3-2
AGMECH 10070187	Occupational Experience 1 - Agricultural Equipment Technology Program	2	0-0
AGMECH 10070193	Air Conditioning	2	1-2
MKTG 10104104	Selling Principles	3	3-0
Third/Summer Session			
AGMECH 10070175	Power Transmissions	4	1-4
PHYSICS 10806139	Survey of Physics	3	1-4
Fourth Semester			
AGMECH 10070177	Fuel Systems	3	2-2
AGMECH 10070182	Accessories & Electronics	3	2-2
AGMECH 10070184	Hydraulics 2	3	1-4
AGMECH 10070188	Occupational Experience 2	2	0-0
ENGLISH 10801197	Technical Reporting	3	3-0
Fifth Semester			
AGMECH 10070150	Precision Farming (Ag Management Solutions)	1	0.5-1
AGMECH 10070191	Engine Repair Theory	3	1-4
AGMECH 10070195	Engine Repair	3	1-4
ECON 10809195	Economics	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Sixth/Summer Session			
AGMECH 10070189	Occupational Experience 3	2	0-0



Effective: 2016-2017

Program Number: 100701

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Effective: 2016-2017

Agriculture Systems Management Less Than One Year Tech Diplom Program Number: 300903

3

3-0

Curriculum	า		
academic year. Require Current/continuing stude	v outline the requirements for completion for students ments for completion may vary depending on the ser ents should consult their Academic Requirements rep fic requirements, as requirements are subject to char	nester in which a port available thro	student is admitted.
		Credits/Units	Hrs/Week LEC-LAB
First Semester			
FARMBUS 10090381	Agriculture Business Management	3	3-0
FARMBUS 10090382	Principles of Sustainable Soil and Crop Management	3	3-0
FARMBUS 10090382 Second Semester	Principles of Sustainable Soil and Crop Management	3	3-0

Agriculture Finance and Economics



FARMBUS 10090386

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Program Number: 102071

An Associate in Applied Arts D

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Prior to Start of Program	n (required)		
ANIM 10207101	Animation Industry Overview	1	0-2
First Semester			
ANIM 10207103	Basic Drawing for Concepting	2	0-4
ANIM 10207110	Animation 1	2	0-4
ANIM 10207111	Introduction To Digital 3D	2	0-4
ANIM 10207112	Photoshop for 3D and Concepting	2	0-4
ANIM 10207114	Modeling 1	2	0-4
ANIM 10207139	Design & Color for Concepting	2	0-4
ENGLISH 10801195	Written Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Second Semester			
ANIM 10207117	Figure Drawing for Concepting	3	0-6
ANIM 10207120	Animation 2	2	0-4
ANIM 10207122	Advanced Digital 3D	2	0-4
ANIM 10207150	Animation Concepts 1	3	0-6
ANIM 10207224	Modeling 2	2	0-4
COMM 10801196	Oral/Interpersonal Communication	3	3-0
MATH 10804107	College Mathematics	3	2-2
Third Semester			
ANIM 10207130	Digital Set Design 1	2	0-4
ANIM 10207131	Animation 3	2	0-4
ANIM 10207134	Modeling 3	2	0-4
ANIM 10207140	Advanced Animation Studio 1	2	0-4
ANIM 10207151	Animation Concepts 2	2	0-4
SPEECH 10801198	Speech	3	3-0
	Elective	3	
Fourth Semester			
ANIM 10207133	Digital Set Design 2	2	0-4
ANIM 10207141	Production Studio	3	0-6
ANIM 10207142	Animation Internship	2	0-0
ANIM 10207143	Animation Portfolio	2	0-4
ANIM 10207144	Advanced Animation Studio 2	2	0-4
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0



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Architectural Technology

Program Number: 106141

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804114	College Technical Math 1B	2	2-0
ARCHT 10614111	Architectural Graphics 1	3	1-4
ARCHT 10614113	Intro To CAD-Architectural	3	1-4
ARCHT 10614121	Construction Materials - Architectural Technology Program	3	3-0
ARCHT 10614135	Building Codes	2	2-0
Second Semester			
MATH 10804116	College Technical Math 2	4	4-0
PHYSICS 10806154	General Physics 1	4	3-2
ARCHT 10614112	Architectural Graphics 2	3	1-4
ARCHT 10614115	Introduction to Revit	3	2-2
ARCHT 10614118	Design Communications	2	1-2
ARCHT 10614122	Revit MEP	2	1-2
Third Semester			
PSYCH 10809199	Psychology Of Human Relations	3	3-0
ARCHT 10614119	Digital Architectural Rendering	1	1-0
ARCHT 10614123	Electrical and Mechanical Systems	4	4-0
ARCHT 10614152	Introduction to Sustainable Design and LEED	2	2-0
ARCHT 10614154	Site Design	3	2-2
ARCHT 10614155	Advanced Revit	2	1-2
ARCHT 10614178	Building Structures	4	4-0
Fourth Semester			
ENGLISH 10801197	Technical Reporting	3	3-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
ARCHT 10614114	Advanced CAD	2	1-2
ARCHT 10614120	Professional Practice	2	3-0
ARCHT 10614142	Architectural Detailing	2	1-2
ARCHT 10614145	Architectural Design Studio	4	3-2
ARCHT 10614194	Portfolio Preparation for Architectural	1	1-0



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Architectural Technology

Program Number: 106141-TR

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ARCHT 10614111	Architectural Graphics 1	3	1-4
ARCHT 10614113	Intro To CAD-Architectural	3	1-4
ARCHT 10614121	Construction Materials - Architectural Technology Program	3	3-0
ARCHT 10614135	Building Codes	2	2-0
ENGLISH 20801201	English 1	3	3-0
MATH 20804212	College Algebra	3	2-2
Second Semester			
ARCHT 10614112	Architectural Graphics 2	3	1-4
ARCHT 10614115	Introduction to Revit	3	2-2
ARCHT 10614118	Design Communications	2	1-2
ARCHT 10614122	Revit MEP	2	1-2
ENGLISH 20801202	English 2	3	3-0
MATH 20804213	Trigonometry	3	2-2
PHYSICS 20806220	Physics of Everyday Life	3	3-0
Third Semester			
ARCHT 10614101	Architectural Theory 1	3	2-2
ARCHT 10614123	Electrical and Mechanical Systems	4	4-0
ARCHT 10614155	Advanced Revit	2	1-2
ARCHT 10614154	Site Design	3	2-2
ARCHT 10614178	Mechanics/Strength of Materials	4	4-0
ARCHT 10614193	Job Orientation	1	1-0
Fourth Semester		_	
ARCHT 10614100	Introduction to Architecture	3	3-0
ARCHT 10614114	Advanced CAD	2	1-2
ARCHT 10614132	Building Estimating	2	2-0
ARCHT 10614142	Architectural Detailing	2	1-2
ARCHT 10614145	Architectural Design Studio	4	3-2
ARCHT 10614194	Portfolio Preparation for Architectural	1	1-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
PSYCH 20809231	Intro Psychology	3	3-0



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Associate Degree Nursing (R.N.)

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
General Education Cours	ses		
NRSAD 30543300	Nursing Assistant	3	4-2.66
ENGLISH 20801201	English 1	3	3-0
SPEECH 10801198	Speech	3	3-0
BIOLOGY 20806207	Anatomy and Physiology 1	4	3-2
BIOLOGY 20806208	Anatomy and Physiology 2	4	3-2
Choose from Microbiology	or General Microbiology:		
BIOLOGY 20806273	Microbiology-University Medical	5	3-4
BIOLOGY 20806274	General Microbiology	5	3-4
SOC 20809203	Intro Sociology	3	3-0
PSYCH 20809231	Intro Psychology	3	3-0
PSYCH 20809233	Developmental Psychology	3	3-0
First Semester		_	
NRSAD 10543101	Nursing Fundamentals - Associate Degree Nursing Program	2	2-0
NRSAD 10543102	Nursing Skills - Associate Degree Nursing Program	3	0-6
NRSAD 10543103	Nursing Pharmacology - Associate Degree Nursing Program	2	2-0
NRSAD 10543104	Nsg: Intro Clinical Practice	2	0-0
Second Semester			
NRSAD 10543105	Nursing Health Alterations - Associate Degree Nursing Program	3	3-0
NRSAD 10543106	Nursing Health Promotion - Associate Degree Nursing Program	3	3-0
NRSAD 10543107	Nursing: Clinical Care Across Lifespan	2	0-0
NRSAD 10543108	Nursing: Introduction to Clinical Care Management	2	0-0
Third Semester			
NRSAD 10543109	Nursing: Complex Health Alterations 1	3	3-0
NRSAD 10543110	Nursing: Mental Health Community Concepts	2	2-0
NRSAD 10543111	Nursing: Intermediate Clinical Practice	3	0-0
NRSAD 10543112	Nursing Advanced Skills	1	0-2
Fourth Semester			
NRSAD 10543113	Nursing: Complex Health Alteratations 2	3	3-0
NRSAD 10543114	Nursing: Management and Professional Concepts	2	2-0
NRSAD 10543115	Nursing: Advanced Clinical Practice	3	0-0
NRSAD 10543116	Nursing Clinical Transition Elective	2 5	0-0



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Program Number: 105431

Program Number: 105431-PA

Associate Degree Nursing (R.N.)

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
General Education Cour			
	st be completed prior to (or be currently in progress with last	course) for	
	Completion Paramedic to ADN courses:	2	2.0
ENGLISH 20801201	English 1	3	3-0
BIOLOGY 20806207	Anatomy and Physiology 1	4	3-2 3-2
BIOLOGY 20806208	Anatomy and Physiology 2	4	-
PSYCH 20809231	Intro Psychology	3 3	3-0 3-0
PSYCH 20809233	Developmental Psychology	-	3-0
courses:	recommended to be completed prior to enrolling in the nurs	ing bridge	
SPEECH 10801198	Speech	3	3-0
BIOLOGY 20806273	Microbiology-University Medical	5	3-4
SOC 20809203	Intro Sociology	3	3-0
000 2000200	Elective	5	00
		0	
Paramedic Bridge Cours	ses and Licensure Requirements		
Second Semester			
NRSAD 10543127	Paramedic to AD Theory 1	3	3-0
NRSAD 10543128	Paramedic to AD Theory 2	3	3-0
NRSAD 10543129	Paramedic to AD Skills	2	0-4
NRSAD 10543130	Paramedic to RN Clinical	2	0-0
Associate Degree Nursi	ng 2nd Year Requirements		
	3		
Third Semester			
NRSAD 10543109	Nursing: Complex Health Alterations 1	3	3-0
NRSAD 10543110	Nursing: Mental Health Community Concepts	2	2-0
NRSAD 10543111	Nursing: Intermediate Clinical Practice	3	0-0
NRSAD 10543112	Nursing Advanced Skills	1	0-2
Fourth Semester			
NRSAD 10543113	Nursing: Complex Health Alteratations 2	3	3-0
NRSAD 10543114	Nursing: Management and Professional Concepts	2	2-0
NRSAD 10543115	Nursing: Advanced Clinical Practice	3	0-0
NRSAD 10543116	Nursing Clinical Transition	2	0-0
		-	



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Program Number: 105431-PN

Associate Degree Nursing (R.N.)

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
General Education Co	urses		
NRSAD 30543300	Nursing Assistant	3	4-2.66
ENGLISH 20801201	English 1	3	3-0
SPEECH 10801198	Speech	3	3-0
SOC 20809203	Intro Sociology	3	3-0
BIOLOGY 20806207	Anatomy and Physiology 1	4	3-2
BIOLOGY 20806208	Anatomy and Physiology 2	4	3-2
BIOLOGY 20806273	Microbiology-University Medical	5	3-4
PSYCH 20809231	Intro Psychology	3	3-0
PSYCH 20809233	Developmental Psychology	3	3-0
Practical Nursing and	Licensure Requirements		
First Semester		2	
NRSAD 31543301	Nursing Fundamentals - Practical Nursing Program	2	4-0
NRSAD 31543302	Nursing Skills - Practical Nursing Program	3	0-6
NRSAD 31543303	Nursing Pharmacology - Practical Nursing Program	2	4-0
NRSAD 31543304	Nursing: Intro to Clinical Practice	2	0-0
Second Semester		0	
NRSAD 31543305	Nursing Health Alterations - Practical Nursing Program	3	6-0
NRSAD 31543306	Nursing Health Promotion - Practical Nursing Program	3	6-0
NRSAD 31543307	Nursing: Clinical Care Across the Lifespan	2	0-0
NRSAD 31543308	Nursing: Intro to Clinical Care Management	2	0-0
Prior to the Start of Th	ird Semester Courses		
NRSAD 10543164	Orientation Associate Degree Nursing	3	2-2
Third Semester			
NRSAD 10543109	Nursing: Complex Health Alterations 1	3	3-0
NRSAD 10543110	Nursing: Mental Health Community Concepts	2	2-0
NRSAD 10543111	Nursing: Intermediate Clinical Practice	3	0-0
NRSAD 10543112	Nursing Advanced Skills	1	0-2
Fourth Semester			
NRSAD 10543113	Nursing: Complex Health Alteratations 2	3	3-0
NRSAD 10543114	Nursing: Management and Professional Concepts	2	2-0
NRSAD 10543115	Nursing: Advanced Clinical Practice	3	0-0
NRSAD 10543116	Nursing Clinical Transition	2	0-0
	Elective	5	



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Auto Collision Repair & Refinishing Technician

A Two Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester		_	
AUTOBODY 32405301	Basic Sheet Metal Repair & Welding Fundamentals	5	0-10
AUTOBODY 32405302	Refinishing 1	5	0-10
AUTOBODY 32405361	Collision Repair/Refinishing Theory 1	3	6-0
AUTOBODY 32405340	Collision Electrical Fundamentals	2	2-2
SMLBUS 10145189	Customer Relations	2	2-0
Second Semester			
AUTOBODY 32405303	Non-Structural Panel Repair & Glass Servicing	5	0-10
AUTOBODY 32405304	Refinishing 2/Trim & Hardware	5	0-10
AUTOBODY 32405341	Collision Mechanical Systems	2	2-2
MATH 31804379	Vocational Math 1	1	2-0
AUTOBODY 32405363	Collision Repair and Refinishing Theory 2	3	6-0
Third Semester			
AUTOBODY 32405305	Auto Refinishing/Color Adjustment	5	0-10
AUTOBODY 32405306	Collision Structural Welding & Panel Replacement	5	0-10
AUTOBODY 32405311	Introduction to Airbrushing and Custom Painting	2	1-3
AUTOBODY 32405365	Collision Repair and Refinishing Theory 3	3	6-0
PHYSICS 31806363	Science 1	2	2-2
Fourth Semester			
AUTOBODY 32405307	Adv Collision Structural Repair	5	0-10
AUTOBODY 32405308	Collision Plastics/Composites & Adv Refinishing Applications	5	0-10
AUTOBODY 32405321	Advanced Airbrushing and Custom Painting	2	1-3
AUTOBODY 32405334	Collision Damage Analysis and Report Writing	3	6-0
AUTOBODY 31405374	Collision Occup Orient	2	3-0



Program Number: 324051

Auto Collision Repair and Refinish Technician

Effective: 2016-2017

Program Number: 314051

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
AUTOBODY 32405301	Basic Sheet Metal Repair & Welding Fundamentals	5	0-10
AUTOBODY 32405302	Refinishing 1	5	0-10
AUTOBODY 32405340	Collision Electrical Fundamentals	2	2-2
AUTOBODY 32405361	Collision Repair/Refinishing Theory 1	3	6-0
SMLBUS 10145189	Customer Relations	2	2-0
Second Semester			
AUTOBODY 32405303	Non-Structural Panel Repair & Glass Servicing	5	0-10
AUTOBODY 32405304	Refinishing 2/Trim & Hardware	5	0-10
AUTOBODY 32405341	Collision Mechanical Systems	2	2-2
AUTOBODY 32405363	Collision Repair and Refinishing Theory 2	3	6-0
MATH 31804379	Vocational Math 1	1	2-0



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Automated Manufacturing Systems Technology

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804107	College Mathematics	3	2-2
INDMANUF 10623300	Fluid Power 1 for Industry	1	0-2
INDMANUF 10623301	Fluid Power 2 for Industry	2	0-4
INDMANUF 10623310	Mechanisms for Industry 1	1	0-2
INDMANUF 10623408	Computer-Assisted Design-2D	2	0.5-3
AUTMFG 10628170	Robotics for Industrial Automation 1	1	0-2
AUTMFG 10628401	PLCs for Industrial Automation 1	1	0.5-1
AUTMFG 10628420	Introduction to Logic & Troubleshooting	1	0-2
Second Semester			
ECON 10809195	Economics	3	3-0
COMPSOFT 10103186	MS (Microsoft) Project	2	0.5-3
MACHT 10420126	Manufacturing Materials	2	1-2
IND MECH 10462320	DC/AC Circuits	3	0-6
INDMANUF 10623100	Safety for Industry	1	0-2
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
AUTMFG 10628168	Robotics for Industrial Automation 2	2	0.5-3
AUTMFG 10628302	Fluid Power 3 for Industry	2	0-4
AUTMFG 10628402	PLCs for Industrial Automation 2	1	0.5-1
Third Semester			
ENGLISH 10801197	Technical Reporting	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
IND MECH 10462322	Industrial Electricity and Controls	4	0-8
INDMANUF 10623409	Computer-Assisted Design-3D	2	0.5-3
AUTMFG 10628403	Programmable Automation Controller 1	2	1-2
AUTMFG 10628450	Integration of Mechanisms and Controls 1	4	0-8
Fourth Semester			
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
AUTMFG 10628172	Vision for Robotics in Industrial Automation	2	0-4
AUTMFG 10628404	Programmable Automation Controller 2	2	1-2
AUTMFG 10628451	Integration of Mechanisms and Controls 2	4	0.5-7
AUTMFG 10628500	Introduction to HMI and SCADA Development	2	0-4



Effective: 2016-2017

Program Number: 106283

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Automotive Technician

A Two Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
AUTOTEC 10602125	Electrical and Electronics Systems 1	2	2-0	
AUTOTEC 10602127	Electrical and Electronics Systems 2	3	1.5-3	
AUTOMECH 32404335	Powertrain Management Systems - Automotive Technician Program	5	2-8	
AUTOMECH 32404340	Service Repair Procedures - Automotive Technician Program	5	3-7	
WELD 10442126	Metal Repair Techniques	2	1-0	
COLLSUCC 10890101	College Success and Study Skills 1cr	1	1-0	
Second Semester				
AUTOMECH 32404318	Automotive Heating & Air Conditioning	2	2-2	
AUTOMECH 32404339	Braking Systems	5	2.5-7.5	
AUTOMECH 32404341	Suspension & Steering Systems	5	2.5-7.5	
MATH 31804379	Vocational Math 1	1	2-0	
Third Semester		_		
AUTOMECH 32404355	Automatic Transmissions	5	2-8	
AUTOMECH 32404356	Manual Drivetrain & Axles	5	2-8	
AUTOTEC 10602115	Introduction to Electric and Hybrid Electric Vehicles	2	1-2	
SMLBUS 10145189	Customer Relations	2	2-0	
PHYSICS 31806363	Science 1	2	2-2	
Fourth Semester				
AUTOMECH 32404316	Accessories - Automotive Technician Program	2	2-2	
AUTOMECH 32404336	Engine Rebuilding - Automotive Technician Program	5	3-7	
AUTOMECH 32404357	Driveability Diagnosis	5	3-7	



Automotive Technology-Comprehensive

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester AUTOTEC 10602102	Service Repair Procedures - Automotive Technology Program	4	1-6
AUTOTEC 10602125	Electrical and Electronics Systems 1	2	2-0
AUTOTEC 10602127	Electrical and Electronics Systems 2	3	1.5-3
AUTOTEC 10602156	Comfort Control Systems	2	1-2
AUTOTEC 10602166	Powertrain Management Technology	5	2-4
MATH 10804134	Mathematical Reasoning	3	2-2
Second Semester			
WELD 10442126	Metal Repair Techniques	2	1-0
AUTOTEC 10602157	Technical Braking Systems	4	1-4
AUTOTEC 10602158	Service Management	2	1-2
AUTOTEC 10602163	Technical Suspension & Steering	4	1-4
ENGLISH 10801195	Written Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Third Semester			
AUTOTEC 10602153	Manual Drivetrains & Axles	4	2-4
AUTOTEC 10602154	Fluid Power Transmissions	5	1-6
AUTOTEC 10602162	Automobile Accessories	2	1-2
PHYSICS 10806139	Survey of Physics	3	1-4
ECON 10809195	Economics	3	3-0
Fourth Semester		_	
AUTOTEC 10602115	Introduction to Electric and Hybrid Electric Vehicles	2	1-2
AUTOTEC 10602150	Internal Combustion Engines	4	2-0
AUTOTEC 10602152	Driveability Analysis	4	2-0
ENGLISH 10801197	Technical Reporting	3	3-0
CHEM 10806134	General Chemistry	4	3-2



Program Number: 106026

Baking & Decorative Arts

Program Number: 313141

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Semester prior to start	of program		
BAKING 31314300	Baking Boot Camp	1	1-1
First Semester			
BAKING 31314305	Chocolate	2	0-4
BAKING 31314306	Bakery Retail	1	0-2
BAKING 31314309	Baking Principles	2	4-0
BAKING 31314315	Baking Lab 1	3	0-6
BAKING 31314325	Baking Lab 2	3	0-6
BAKING 31314384	Cake Decorating	2	0-4
CUL ARTS 10316101	Principles Of Sanitation	1	1-0
Second Semester			
BAKING 31314335	Cakes	3	0-6
BAKING 31314345	Artisan Breads	3	0-6
BAKING 31314355	Bakery Production	3	0-6
BAKING 31314375	Experimental Baking	1	0-2
BAKING 31314388	Advanced Cake Decorating	2	0-4
BAKING 31314389	Baking Seminar	1	2-0



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Biotechnology Intensive Postbaccalaureate

Program Number: 900072CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
BIOTECH 10007103	Biotechnology Laboratory Skills for a Regulated Workplace	3	1-0
BIOTECH 10007122	Protein Bioseparations Methods	3	1-0
BIOTECH 10007123	Cell Culturing	3	1-0
BIOTECH 10007124	Molecular Biology 1	3	1-0
BIOTECH 10007136	Laboratory Math for Biotechnology	1	0-2
BUSADM 10102134	Business Organization, Management, and Ethics	3	3-0



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Program Number: 300071

Biotechnology Laboratory Support Assistant

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
Courses BIOTECH 10007103	Biotechnology Laboratory Skills for a Regulated Workplace	3	1-0
BIOTECH 10007103	Biotechnology Laboratory Skills for a Regulated Workplace	3	1-0
BIOTECH 10007105	Bioprocess Technology	3	1-0
BIOTECH 10007108	Hazardous Materials - Biotechnology	1	0.5-1
BIOTECH 10007111	Biotechnology Career Seminar	1	1-0
BIOTECH 10007136	Laboratory Math for Biotechnology	1	0-2



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Biotechnology Laboratory Technician

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
BIOTECH 10007103	Biotechnology Laboratory Skills for a Regulated Workplace	3	1-0
BIOTECH 10007108	Hazardous Materials - Biotechnology	1	0.5-1
BIOTECH 10007111	Biotechnology Career Seminar	1	1-0
BIOTECH 10007115	General Cell Biology	4	3-0
BIOTECH 10007136	Laboratory Math for Biotechnology	1	0-2
ENGLISH 10801195	Written Communication	3	3-0
Choose from one of the fo	•		
CHEM 10806127	Chemistry 1	4	3-2
CHEM 20806201	General, Organic & Biological Chemistry	5	4-2
Second Semester			
BIOTECH 10007104	Chromatography Techniques	3	1-0
BIOTECH 10007105	Bioprocess Technology	3	1-0
BIOTECH 10007110	Biotechnology Applications	1	1-0
BIOTECH 10007174	Applied Microbiology	4	2-4
COMM 10801196	Oral/Interpersonal Communication	3	3-0
Choose from one of the fo	llowing courses:		
CHEM 10806129	Chemistry 2	4	3-2
CHEM 20806216	Chemistry for Biotechnology	3	2-2
Third Semester			
BIOTECH 10007122	Protein Bioseparations Methods	3	1-0
BIOTECH 10007123	Cell Culturing	3	1-0
BIOTECH 10007124	Molecular Biology 1	3	1-0
BIOTECH 10007152	Making Biotech Products in a Quality Environment	2	0-4
SOC 10809197	Contemporary Amer Society	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
BIOTECH 10007112	Biotechnology Employment Skills	1	1-0
Fourth Semester			
BIOTECH 10007121	Applied Biochemistry	3	2-0
BIOTECH 10007125	Research Methods in Molecular Biology	3	1-0
BIOTECH 10007126	Occupational Work Experience	3	0-0
ECON 10809195	Economics	3	3-0
	Elective	3	



Effective: 2016-2017

Program Number: 100072

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Program Number: 900071CERT

Biotechnology Postbaccalaureate

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

Hrs/Week LEC-LAB	Credits/Units		
4.0			Courses
1-0	3	Biotechnology Laboratory Skills for a Regulated Workplace	BIOTECH 10007103
			Courses
	÷	hoose a minimum of 12 additional credits from the following list.	
1-0	3	Bioprocess Technology	BIOTECH 10007105
1-0	3	Chromatography Techniques	BIOTECH 10007104
1-0	3	Molecular Biology 1	BIOTECH 10007124
1-0	3	Protein Bioseparations Methods	BIOTECH 10007122
1-0	3	Cell Culturing	BIOTECH 10007123
2-4	4	Applied Microbiology	BIOTECH 10007174
2-2	3	Intro to Bioinformatics Biotechnology	BIOTECH 10007180
2-0	2	Quality Regulations and Standards for Biotechnology	BIOTECH 10007155
3-0	3	Business Organization, Management, and Ethics	BUSADM 10102134
1-0	3	Research Methods in Molecular Biology	BIOTECH 10007125
0-6	3	Introduction to Human Stem Cell Methods	BIOTECH 10007116
1-0	1	Introduction to Human Stem Cell Concepts	BIOTECH 10007118
0-6	3	Advanced Human Stem Cell Methods	BIOTECH 10007117
1-0	1	Advanced Human Stem Cell Concepts	BIOTECH 10007119
	1	Advanced Human Stem Cell Concepts	BIOTECH 10007119



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Bricklaying/Masonry Apprentice

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester BRCKMSN 50408510	Tech Brick Sem 1	2	3-1	
Second Semester BRCKMSN 50408511	Tech Brick Sem 2	2	3-1	
Third Semester BRCKMSN 50408512	Tech Brick Sem 3	2	3-1	
Fourth Semester BRCKMSN 50408513	Tech Brick Sem 4	2	3-1	
Fifth Semester BRCKMSN 50408514	Tech Brick Sem 5	2	3-1	
Sixth Semester BRCKMSN 50408515	Tech Brick Sem 6	2	3-1	



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Program Number: 504081

Business Management

Program Number: 101023

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ENGLISH 10801195	Written Communication	3	3-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
ACCTG 10101111	Accounting 1 - Principles	4	4-0
BUSADM 10102134	Business Organization, Management, and Ethics	3	3-0
Second Semester			
SPEECH 10801198	Speech	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
ACCTG 10101118	Management Accounting	4	4-0
BUSADM 10102135	Project Management - Fundamentals	3	3-0
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
COMPSOFT 10103139	Excel - Intermediate	1	0.27-1.5
HRMGT 10116145	Introduction to Human Resources	3	3-0
Third Semester			
ECON 10809195	Economics	3	3-0
BUSADM 10102114	Business Communication	3	3-0
BUSADM 10102143	Management Techniques	3	3-0
FINANCE 10114126	Corporate Finance	3	3-0
Choose from one of the fo			
Option A: Employment La Option B: 6 credits from o	W and an Elective		
HRMGT 10116168	Employment Law	3	3-0
	Concentration Course	0	5.0
Fourth Semester			
ENGLISH 10801197	Technical Reporting	3	3-0
BUSADM 10102104	Business Statistics	3	3-0
BUSADM 10102132	Strategic Leadership	3	3-0
BUSADM 10102133	Topics in Tactical Management	3	3-0
MKTG 10104102	Marketing Principles	3	3-0
Choose from one of the fo			
Option A: Employment La			
Option B: 6 credits from o		0	
	Elective Concentration Course	3	
Business-Related Conce	entration Courses		
Accounting	· · · · · · · · · · · · · · · · · · ·		
ACCTG 10101113	Accounting 2 - Principles	4	4-0
ACCTG 10101138	Accounting And Payroll Systems	3	2-2



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Finance			
FINANCE 10114130	Personal Finance	3	3-0
FINANCE 10114140	Investments	3	3-0
FINANCE 10114128	Financial Institutions	3	3-0
Human Resources			
HRMGT 10116147	Wage, Salary & Benefits Admin	3	3-0
HRMGT 10116152	Organizational Training and Development	3	3-0
HRMGT 10116148	Labor Relations	3	3-0
HRMGT 10116149	Effective Staffing	3	3-0
International Business			
BUSADM 10102150	Introduction to International Business	3	3-0
MKTG 10104180	Global Marketing	3	3-0
Marketing			
MKTG 10104107	Marketing Management	3	3-0
MKTG 10104114	Social Media Principles	3	3-0
Real Estate			
RLEST 10194182	Real Estate Law	4	4-0
RLEST 10194185	Real Estate Brokerage	4	4-0
Risk Management & Inst	urance		
INSMGT 10162133	Managing Business Risks	3	3-0
INSMGT 10162135	Detecting Employee Fraud	3	3-0
Social Media			
MKTG 10104114	Social Media Principles	3	3-0
MKTG 10104115	Capstone Campaign	3	3-0
Supervision			
SUPDEV 10196189	Team Building & Problem Solving	3	3-0
SUPDEV 10196192	Foundations Of Quality	3	3-0



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Business Plan

Program Number: 901453CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
SMLBUS 10145102	Small Business Development	3	3-0
SMLBUS 10145106	Small Business Marketing	3	3-0
Take one of the followin	ng courses:		
SMLBUS 10145108	Field Experience	2	1-0
SMLBUS 10145117	Introduction to Entrepreneurship	3	3-0



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Program Number: 904203CERT

CNC Operations

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
MACHT 32420346	Intro to CNC - G-code Programming	2	2-2
MACHT 32420337	Manufacturing w/Solid Modeling-2D	2	4-0
MACHT 32420348	Applied CNC-Conversational and Setup	2	2-2
MACHT 32420336	Manufacturing w/Solid Modeling 3D	2	4-0
MACHT 32420389	Applied CNC - Intermediate Operations	2	1-3
MACHT 32420370	Manufacturing w/Solid Modeling-Advanced	1	1-1
MACHT 32420391	Applied CNC - Advanced Operations	1	0-2



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Real world smart.

Cabinetmaking and Millwork

Program Number: 314092

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
CABMIL 31409330	Woodworking 1: Machinery & Methods	5	2-8
CABMIL 31409331	Woodworking 2: Materials and Processes	5	2-8
CABMIL 31409340	Tool & Machine Maintenance	1	1-1
CABMIL 31409341	Wood Finishing 1	1	1-1
CABMIL 31409385	Drawing - Cabinetmaking and Millwork Program	2	2-2
COMM 31801356	Communications 1	1	2-0
MATH 31804379	Vocational Math 1	1	2-0
Second Semester			
CABMIL 31409332	Cabinetmaking, Millwork & Furniture 1	5	2-8
CABMIL 31409333	Cabinetmaking, Millwork, and Furniture 2	5	2-8
CABMIL 31409337	Workplace Safety	1	0-2
CABMIL 31409342	Countertops and Surfaces	2	2-2
CABMIL 31409345	Wood Finishing 2	1	0-2
CABMIL 31409386	AutoCAD for Cabinet Drawing	2	2-2



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Carpentry (Construction)

Program Number: 504101

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester CARP 50410593	Tech Carpentry Semester 1	2	1.5-3
Second Semester CARP 50410594	Tech Carpentry Semester 2	2	2.22-2.22
Third Semester CARP 50410595	Tech Carpentry Semester 3	2	3-1.5
Fourth Semester CARP 50410596	Tech Carpentry Semester 4	2	3.33-1.11
Fifth Semester CARP 50410597	Tech Carpentry Semester 5	2	1.5-3
Sixth Semester CARP 50410598	Tech Carpentry Semester 6	2	3-1.5



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Carpentry Techniques

Program Number: 304102

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
CARP 31410301	Introduction to Construction	5	2-8
CARP 31410328	Construction Techniques 1	5	2-8
CARP 31410337	Workplace Safety	1	0-2
CARP 31410399	Fundamentals Of Construction	3	1-5
COMM 31801356	Communications 1	1	2-0
MATH 31804379	Vocational Math 1	1	2-0



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Program Number: 313071

Child Care Services

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
EARLYCHL 10307148	ECE: Foundations of ECE	3	3-0	
EARLYCHL 10307151	ECE: Infant & Toddler Development	3	3-0	
EARLYCHL 10307166	ECE: Curriculum Planning	3	2-2	
EARLYCHL 10307167	ECE: Health, Safety, & Nutrition	3	3-0	
EARLYCHL 10307174	ECE: Practicum 1	3	1-0	
ENGLISH 10801195	Written Communication	3	3-0	
Second Semester				
EARLYCHL 10307178	ECE: Art, Music & Lang Arts	3	2-2	
EARLYCHL 10307179	ECE: Child Development	3	3-0	
EARLYCHL 10307188	ECE: Guiding Child Behavior	3	2-2	
EARLYCHL 10307192	ECE: Practicum 2	3	1-0	



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Civil Engineering Technology

Program Number: 106071

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
CIVILET 10607120	Methods In Civil Engineering	2	2-0
CIVILET 10607155	Survey 1	3	2-0
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804114	College Technical Math 1B	2	2-0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
CIVILET 10607125	Intro To Cad Civil Engineer	2	1-2
Second Semester			
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
CIVILET 10607147	Civil Drawing 1	3	1-2
CIVILET 10607149	Aggregates And Concrete	2	1-0
CIVILET 10607156	Survey 2	3	2-0
CIVILET 10607193	Career Development - Civil Engineering Program	1	1-0
MATH 10804116	College Technical Math 2	4	4-0
PHYSICS 10806154	General Physics 1	4	3-2
Third Semester			
CIVILET 10607148	Civil Drawing 2	2	1-0
CIVILET 10607158	Survey 3	3	1-2
CIVILET 10607160	Soils	2	1-0
CIVILET 10607172	Stormwater Management	2	1-2
CIVILET 10607177	Legal Elements Engineering	2	2-0
ENGLISH 10801197	Technical Reporting	3	3-0
	Elective	3	
Fourth Semester			
CIVILET 10607133	Estimating	3	2-2
CIVILET 10607161	Project - Civil Engineering Technology Program	3	1-0
CIVILET 10607171	Construction Materials -Civil Engineering Technician Program	2	1-2
CIVILET 10607179	Intro to Geographical Information Systems (GIS)	2	1-2
CIVILET 10607182	Water Supply and Sewerage	2	1-2
	Elective	3	



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Clinical Ophthalmic Assistant

Program Number: 905161CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
OPTOMET 31516325	Optical Dispensing 1	3	3-2
OPTOMET 31516301	Ophthalmic Pre-Testing	3	3-3
OPTOMET 31516305	Basic Optical Concepts	3	3-2
OPTOMET 31516315	Ocular Anatomy	2	3-1
OPTOMET 31516339	Human Relations - Optometric Technician Program	1	2-0
Second Semester			
OPTOMET 31516327	Clinical Ophthalmic Procedures	2	0-4
OPTOMET 31516326	Optical Dispensing 2	2	2-2
OPTOMET 31516330	Contact Lenses	3	2.5-2.5
OPTOMET 31516335	Ophthalmic Specialty Testing	3	4-2
OPTOMET 31516340	Patient Relations/Pract Manage	2	3.33-0
OPTOMET 31516345	Preclinical	2	0-4
OPTOMET 31516350	Clinical Experience	3	0-0



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Construction Essentials

Program Number: 304103

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			-
CARP 31410337	Workplace Safety	1	0-2
CARP 31410399	Fundamentals Of Construction	3	1-5
COMM 31801356	Communications 1	1	2-0
MATH 31804379	Vocational Math 1	1	2-0



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Construction and Remodeling

Program Number: 314106

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
CARP 31410301	Introduction to Construction	5	2-8
CARP 31410302	Plans, Site and Formwork	2	1-3
CARP 31410309	Plan Reading and Drawing	1	1-1
CARP 31410328	Construction Techniques 1	5	2-8
CARP 31410337	Workplace Safety	1	0-2
CARP 31410399	Fundamentals Of Construction	3	1-5
COLLSUCC 10890101	College Success and Study Skills 1cr	1	1-0
MATH 31804379	Vocational Math 1	1	2-0
Second Semester			
CARP 31410308	Construction Industry Codes and Regulations	2	2-2
CARP 31410329	Construction Techniques 2	5	2-8
CARP 31410335	Intermediate Carpentry Lab	2	1-3
CARP 31410345	Materials and Estimating 1	1	2-0
COMM 31801356	Communications 1	1	2-0
	Select 3 courses from the Course Selectives list below.	3	
Course Selectives			
CARP 31410363	Building Science and Sustainability	1	2-0
CARP 31410385	Construction Drawing - Construction and Remodeling Program	1	1-1
CARP 31410311	Commercial Construction	1	0-2
CARP 31410310	Materials and Estimating 2	1	2-0
CARP 31410324	Remodeling Techniques	1	1-1



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Program Number: 315021

Cosmetology

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Prior to start of program		_	
COSMET 10502330	Making the Cut	1	1-0
First Semester			
COSMET 31502321	Cosmetology Techniques 1	3	0-6
COSMET 31502322	Cosmetology Techniques 2	2	0-4
COSMET 31502340	Cosmetology Theory 1	5	10-0
COSMET 31502341	Cosmetology Theory 2	5	10-0
COSMET 31502392	Cosmetology Sales and Advertising 1	1	2-0
SMLBUS 10145189	Customer Relations	2	2-0
Second Semester		4	0.0
COSMET 31502323	Cosmetology Techniques 3	4	0-8
COSMET 31502324	Cosmetology Techniques 4	4	0-8
COSMET 31502325	Cosmetology Techniques 5	4	0-8
COSMET 31502326	Cosmetology Techniques 6	4	0-8
COSMET 31502342	Cosmetology Theory 3	2	4-0
COSMET 31502393	Cosmetology Sales and Advertising 2	1	2-0
Summer Semester			
COSMET 31502327	Cosmetology Techniques 7	4	0-8
COSMET 31502328	Cosmetology Techniques 8	4	0-8
COSMET 31502343	Cosmetology Theory 4	3	6-0
COSMET 31502395	Cosmetology State Board Review	1	2-0



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Cosmetology Apprentice

Program Number: 505021

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester COSMET 50502521	Related Barber/Cosmetology 1	2	4-0	
Second Semester COSMET 50502522	Related Barber/Cosmetology 2	2	4-0	
Third Semester COSMET 50502523	Related Barber/Cosmetology 3	2	4-0	
Fourth Semester COSMET 50502524	Related Barber/Cosmetology 4	2	4-0	



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Effective: 2016-2017

Program Number: 101702

Court Reporting

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
BUSADM 10102160	Business Law 1	3	3-0
COURT 10170111	Court Reporting 1	4	2-4
COURT 10170121	CAT Class 1	1	0.77-0.5
COURT 10170131	English for Realtime Reporters 1	1	0.77-0.5
MATH 10804123	Math with Business Applications	3	3-0
Second Semester			
COURT 10170112	Court Reporting 2	4	2-4
COURT 10170122	CAT Class 2	1	0.77-0.5
COURT 10170132	English for Realtime Reporters 2	1	0.77-0.5
MEDTERM 10501101	Medical Terminology	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
Third Semester (summe			
COURT 10170113	Court Reporting 3	4	2-4
SOC 10809172	Introduction to Diversity Studies	3	3-0
Fourth Semester			
COURT 10170114	Court Reporting 4	4	2-4
COURT 10170124	CAT Class 4	1	0.5-1
COURT 10170134	English for Realtime Reporters 4	1	0.5-1
ENGLISH 10801195	Written Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Fifth Semester		_	
COURT 10170115	Court Reporting 5	4	2-4
COURT 10170125	CAT Class 5	1	0.5-1
COURT 10170135	English for Realtime Reporters 5	1	0.5-1
COMM 10801196	Oral/Interpersonal Communication	3	3-0
ECON 10809195	Economics	3	3-0
Sixth Semester (summe			
COURT 10170116	Court Reporting 6	4	2-4
COURT 10170170	Court Reporting Procedures	3	3-0
COURT 10170171	Legal Terminology	2	2-0
COURT 10170172	Court Reporting Internship	3	0-0



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Criminal Justice - Law Enforcement

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
CRIMJUST 10504170	Introduction to Corrections	3	3-0
CRIMJUST 10504900	Introduction to Criminal Justice	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804107	College Mathematics	3	2-2
PSYCH 10809199	Psychology Of Human Relations	3	3-0
COLLSUCC 10890101	College Success and Study Skills 1cr	1	1-0
Second Semester			
CRIMJUST 10504171	Private Sector Security	3	3-0
CRIMJUST 10504171 CRIMJUST 10504902	Criminal Law	3	3-0
CRIMJUST 10504902 CRIMJUST 10504904	Juvenile Law	3	3-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
POLISCI 10809122	Intro to Amer Government	3	3-0
SOC 10809197		3	3-0
300 10809197	Contemporary Amer Society	3	3-0
Third Semester			
CRIMJUST 10504103	Professional Development Seminar for Criminal Justice	1	1-0
CRIMJUST 10504901	Constitutional Law	3	3-0
CRIMJUST 10504905	Report Writing	3	3-0
CRIMJUST 10504906	Criminal Investigation Theory	3	2-2
CRIMJUST 10504908	Traffic Theory	3	3-0
EMS 10531150	Emergency Response for Protective Services-Criminal	2	2-0
	Justice/Law Enforcement Program	-	- •
	Elective	3	
Fourth Semester			
CRIMJUST 10504143	Criminology for Law Enforcement	3	3-0
CRIMJUST 10504152	Emergency Management	3	3-0
CRIMJUST 10504903	Professional Communications	3	3-0
CRIMJUST 10504907	Community Policing Strategies	3	3-0
SOC 10809172	Introduction to Diversity Studies	3	3-0
	Elective	3	



Program Number: 105041

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Criminal Justice-Law Enforcement 720 Academy

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

	Credits/Units	Hrs/Week LEC-LAB
Application of Investigations	2	2.16-1.38
Application of Traffic Response	2	1.33-3.33
Health and Fitness	1	0.22-1.88
Overview of Criminal Justice	1	1.77-0.22
Overview of Investigations	2	2.55-0.77
Overview of Patrol Response	2	2.11-0.88
Overview of Tactics	1	1.11-1.11
Principles of Emergency Vehicle Response	2	0.66-2.66
Principles of Investigations	2	2.44-0.66
Principles of Patrol Response	2	2.22-2.11
Principles of Tactics	3	0.55-5.55
	Health and Fitness Overview of Criminal Justice Overview of Investigations Overview of Patrol Response Overview of Tactics Principles of Emergency Vehicle Response Principles of Investigations Principles of Patrol Response	Application of Investigations2Application of Traffic Response2Health and Fitness1Overview of Criminal Justice1Overview of Investigations2Overview of Patrol Response2Overview of Tactics1Principles of Emergency Vehicle Response2Principles of Investigations2Principles of Patrol Response2Principles of Patrol Response2Principles of Patrol Response2Principles of Patrol Response2Principles of Patrol Response2

Effective: 2016-2017

Program Number: 305042

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Effective: 2016-2017

Program Number: 103161

Culinary Arts

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
CUL ARTS 10316101	Principles Of Sanitation	1	1-0
CUL ARTS 10316106	Food Theory	2	2-0
CUL ARTS 10316108	Culinary Baking Fundamentals	1	1-0
CUL ARTS 10316111	Professional Cooking 1	4	0-8
CUL ARTS 10316115	Culinary Baking Lab	2	0-4
CUL ARTS 10316140	Menu Planning	1	1-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
Second Semester			
ACCTG 10101106	Accounting Fundamentals	3	3-0
CUL ARTS 10316121	Professional Cooking 2	4	0-8
CUL ARTS 10316133	Garde Manger/Decorative Foods	2	0-4
CUL ARTS 10316139	Catering	2	2-0
CUL ARTS 10316152	Nutrition	1	1-0
ENGLISH 10801195	Written Communication	3	3-0
Third (Summer) Term CUL ARTS 10316194	Culinary Internship	2	0-0
Fourth Semester			
HOSPT 10109134	Hotel/Restaurant Cost Control	3	3-0
CUL ARTS 10316104	Intro To Gourmet Food Prep	3	0-6
CUL ARTS 10316132	Waitstaff Training	1	0-0
CUL ARTS 10316158	Food Purchasing Analysis	1	1-0
MATH 10804123	Math with Business Applications	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
	Elective	3	
Fifth Semester			
HOSPT 10109125	Hospitality Leadership	3	3-0
CUL ARTS 10316130	Gourmet Foods	4	1-6
CUL ARTS 10316135	Dining Room Operation	1	0-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0



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Culinary Production Specialist

Program Number: 313162

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
CUL ARTS 10316101	Principles Of Sanitation	1	1-0
CUL ARTS 10316106	Food Theory	2	2-0
CUL ARTS 10316108	Culinary Baking Fundamentals	1	1-0
CUL ARTS 10316111	Professional Cooking 1	4	0-8
CUL ARTS 10316115	Culinary Baking Lab	2	0-4
CUL ARTS 10316140	Menu Planning	1	1-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
Second Semester			
ACCTG 10101106	Accounting Fundamentals	3	3-0
CUL ARTS 10316121	Professional Cooking 2	4	0-8
CUL ARTS 10316133	Garde Manger/Decorative Foods	2	0-4
CUL ARTS 10316139	Catering	2	2-0
CUL ARTS 10316152	Nutrition	1	1-0
ENGLISH 10801195	Written Communication	3	3-0
Third/Summer Semester			
CUL ARTS 10316194	Culinary Internship	2	0-0



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Effective: 2016-2017

Program Number: 305082

Dental Assistant

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
DENTHYG 10508101	Dental Health Safety	1	0-2
DENTAST 31508302	Dental Chairside	5	4-6
DENTHYG 10508113	Dental Materials	2	1-2
DENTHYG 10508113	Dental Materials	2	1-2
DENTHYG 10508304	Dental & General Anatomy	2	2-0
DENTHYG 10508103	Dental Radiography	2	1-2
DENTAST 31508306	Dental Assistant Clinical	3	0-0
DENTAST 31508307	Dental Assistant Professional	1	2-0



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Program Number: 105081

Dental Hygienist

Associate in Applied Science

Curriculum

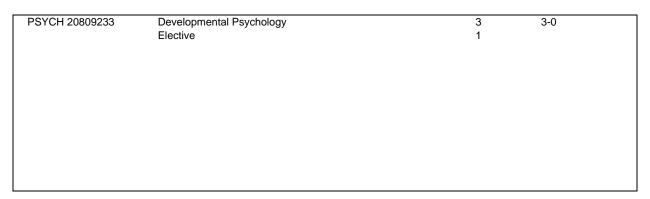
The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Pre-Dental Hygienist Cou	irses		
	t be completed prior to acceptance into dental courses:		
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
CHEM 20806201	General, Organic & Biological Chemistry	5	4-2
Choose from Microbiology	or General Microbiology:		
BIOLOGY 20806273	Microbiology-University Medical	5	3-4
BIOLOGY 20806274	General Microbiology	5	3-4
Summer Semester			
3	en prior to fall/first semester:		
DENTHYG 10508101	Dental Health Safety	1	0-2
First Semester			
DENTHYG 10508102	Oral Anatomy, Embry, Histology	4	4-0
DENTHYG 10508103	Dental Radiography	2	1-2
DENTHYG 10508105	Dental Hygiene Process 1	4	2-0
DENTHYG 10508105	Dental Hygiene Process 1	4	2-0
Second Semester			
DENTHYG 10508106	Dental Hygiene Process 2	4	0-0
DENTHYG 10508106	Dental Hygiene Process 2	4	2-0
DENTHYG 10508108	Periodontology	3	3-0
DENTHYG 10508109	Cariology	1	1-0
DENTHYG 10508110	Nutrition and Dental Health	2	2-0
DENTHYG 10508110	Nutrition and Dental Health	2	2-0
DENTHYG 10508113	Dental Materials	2	1-2
DENTHYG 10508113	Dental Materials	2	1-2
PSYCH 20809231	Intro Psychology	3	3-0
Third Semester			
DENTHYG 10508111	General and Oral Pathology	3	3-0
DENTHYG 10508112	Dental Hygiene Process 3	5	2-0
DENTHYG 10508114	Dental Pharmacology	2	2-0
DENTHYG 10508115	Community Dental Health	2	2-0
DENTHYG 10508116	Dental Pain Management	1	1-0
SOC 20809203	Intro Sociology	3	3-0
Fourth Semester			
DENTHYG 10508107	Dental Hygiene Ethics & Profes	1	1-0
DENTHYG 10508117	Dental Hygiene Process 4	4	2-0
DENTHYG 10508117	Dental Hygiene Process 4	4	0-0
ENGLISH 10801195	Written Communication	3	3-0
SPEECH 10801198	Speech	3	3-0



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Effective: 2016-2017





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Real world smart.

Diesel & Heavy Equipment Technician

A Two Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
MATH 10804107	College Mathematics	3	2-2
DIESEL 10412140	Diesel Shop Skill Fundamentals	1	0-2
DIESEL 10412155	Heavy Duty Drivetrains	4	2-0
DIESEL 10412164	Brake and Suspension Systems	4	2-0
WELD 10442126	Metal Repair Techniques	2	1-0
Second Semester			
DIESEL 10412137	Preventive Maintenance Inspections	4	3-2
DIESEL 10412144	Fundamental Diesel Electrical/Electronics Systems	3	1-0
DIESEL 10412145	Electrical/Electronics Systems Diagnostics	3	1-0
PHYSICS 31806363	Science 1	2	2-2
Third Semester			
DIESEL 10412138	Diesel Shop Management	2	2-0
DIESEL 10412176	Diesel Fuel Systems	4	2-0
DIESEL 10412177	Diesel Engine Diagnostics	2	1-2
DIESEL 10412178	Diagnostic Strategies	2	1-2
DIESEL 10412188	Electronic Control Systems	2	1-2
ENGLISH 10801195	Written Communication	3	3-0
Fourth Semester			
DIESEL 10412112	Mobile Hydraulics	3	2-2
DIESEL 10412125	Cab Climate Control and Refrigeration Systems	3	1-4
DIESEL 10412184	Diesel Engine Technology	2	0-4
DIESEL 10412185	Diesel Engine Repair	4	0.5-2



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Program Number: 324121

Diesel Equipment Technology

Program Number: 104121

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
MATH 10804107	College Mathematics	3	2-2
DIESEL 10412137	Preventive Maintenance Inspections	4	3-2
DIESEL 10412144	Fundamental Diesel Electrical/Electronics Systems	3	1-0
DIESEL 10412145	Electrical/Electronics Systems Diagnostics	3	1-0
WELD 10442126	Metal Repair Techniques	2	1-0
Second Semester			
ENGLISH 10801195	Written Communication	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
DIESEL 10412112	Mobile Hydraulics	3	2-2
DIESEL 10412155	Heavy Duty Drivetrains	4	2-0
DIESEL 10412164	Brake and Suspension Systems	4	2-0
Third/Summer Semester			
DIESEL 10412190	Diesel Equipment Laboratory Experience 1	1	0-2
DIESEL 10412195	Occupational Experience 1 - Diesel Equipment Technology Program	2	0-0
Fourth Semester			
DIESEL 10412125	Cab Climate Control and Refrigeration Systems	3	1-4
DIESEL 10412184	Diesel Engine Technology	2	0-4
DIESEL 10412185	Diesel Engine Repair	4	0.5-2
ENGLISH 10801197	Technical Reporting	3	3-0
PHYSICS 10806139	Survey of Physics	3	1-4
Fifth Semester			
DIESEL 10412176	Diesel Fuel Systems	4	2-0
DIESEL 10412177	Diesel Engine Diagnostics	2	1-2
DIESEL 10412138	Diesel Shop Management	2	2-0
DIESEL 10412178	Diagnostic Strategies	2	1-2
DIESEL 10412188	Electronic Control Systems	2	1-2
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0



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Digital Forensics

Program Number: 905041CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
CRIMJUST 10504185	Introduction to Computer Forensics	3	3-0	
CRIMJUST 10504186	Introduction to Internet and Network Concepts	3	3-0	
CRIMJUST 10504196	Ethics	1	1-0	
Second Semester				
CRIMJUST 10504187	Legal Issues and Digital Evidence	3	3-0	
CRIMJUST 10504189	Introduction to Video Evidence	3	3-0	
CRIMJUST 10504195	Mobile Forensics	3	3-0	
Third Semester				
CRIMJUST 10504188	Advanced Computer Forensics Concepts/Forensics Practicum	3	2-2	



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Program Number: 311045

Digital Marketing

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
MKTG 10104102	Marketing Principles	3	3-0
MKTG 10104114	Social Media Principles	3	3-0
MKTG 10104162	Mobile Marketing (Social Media)	3	3-0
MKTG 10104164	Marketing Digital Design	3	3-0
MKTG 10104169	Internet Marketing	3	3-0
Second Semester			
MKTG 10104103	Marketing Research	3	3-0
MKTG 10104113	Leadership Ethics in the Digital Age	3	3-0
MKTG 10104115	Capstone Campaign	3	3-0
MKTG 10104126	Public Relations	3	3-0



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Early Childhood Education

Program Number: 103071

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
EARLYCHL 10307148	ECE: Foundations of ECE	3	3-0
EARLYCHL 10307151	ECE: Infant & Toddler Dev	3	3-0
EARLYCHL 10307166	ECE: Curriculum Planning	3	2-2
EARLYCHL 10307167	ECE: Health, Safety, & Nutrition	3	3-0
EARLYCHL 10307174	ECE: Practicum 1	3	1-0
ENGLISH 10801195	Written Communication	3	3-0
Second Semester			
EARLYCHL 10307178	ECE: Art, Music & Lang Arts	3	2-2
EARLYCHL 10307179	ECE: Child Development	3	3-0
EARLYCHL 10307188	ECE: Guiding Child Behavior	3	2-2
EARLYCHL 10307192	ECE: Practicum 2	3	1-0
SPEECH 10801198	Speech	3	3-0
SOC 10809172	Introduction to Diversity Studies	3	3-0
Third Semester			
EARLYCHL 10307194	ECE: Math Science & Soc St	3	2-2
EARLYCHL 10307195	ECE: Family & Community Rel	3	3-0
EARLYCHL 10307197	ECE: Practicum 3	3	0-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Fourth Semester			
EARLYCHL 10307187	ECE: Children w diff Abilities	3	3-0
EARLYCHL 10307198	ECE: Admin an ECE Program	3	3-0
EARLYCHL 10307199	ECE: Practicum 4	3	0-0
MATH 10804123	Math with Business Applications	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
	Elective	3	



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Program Number: 903075CERT

Early Childhood Education Entry Level Provider

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
EARLYCHL 10307167	ECE: Health, Safety, & Nutrition	3	3-0
EARLYCHL 10307178	ECE: Art, Music & Lang Arts	3	2-2
EARLYCHL 10307188	ECE: Guiding Child Behavior	3	2-2



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Real world smart.

Program Number: 903072CERT

Early Childhood Education Infant & Toddler

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
EARLYCHL 10307151	ECE: Infant & Toddler Development	3	3-0
EARLYCHL 10307161	Infants/Toddlers-Grp Care	3	3-0
EARLYCHL 10307195	ECE: Family & Community Relations	3	3-0



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Real world smart.

Program Number: 903071CERT

Early Childhood Education Preschool

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester EARLYCHL 10307148	ECE: Foundations of ECE	3	3-0	
Second Semester EARLYCHL 10307179	ECE: Child Development	3	3-0	
Third Semester EARLYCHL 10307167	ECE: Health, Safety, & Nutrition	3	3-0	
Fourth Semester EARLYCHL 10307188	ECE: Guiding Child Behavior	3	2-2	
Fifth Semester EARLYCHL 10307178	ECE: Art, Music & Lang Arts	3	2-2	
Sixth Semester EARLYCHL 10307130	ECE: Preschool Capstone	3	3-0	



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Program Number: 504133

Electrical Construction Apprentice

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester ELEC 50413530	Tech Electrical 1	4	6-2	
Second Semester ELEC 50413531	Tech Electrical 2	4	6-2	
Third Semester ELEC 50413532	Tech Electrical 3	4	2-2	
Fourth Semester ELEC 50413533	Tech Electrical 4	4	2-2	
Fifth Semester ELEC 50413534	Tech Electrical 5	2	3-1	
Sixth Semester ELEC 50413535	Tech Electrical 6	2	3-1	



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Electrical Engineering Technology

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
ENGLISH 10801195	Written Communication	3	3-0	
PSYCH 10809199	Psychology Of Human Relations	3	3-0	
ELECT 10605112	AC/DC Electronics 1	3	2-0	
ELECT 10605113	Analog Circuit Techniques	3	1-4	
ELECT 10605118	Digital Circuit Techniques	3	1-4	
Second Semester				
804 10804196	Trigonometry w Apps	3	3-0	
ECON 10809195	Economics	3	3-0	
ELECT 10605114	AC/DC Electronics 2	3	2-0	
ELECT 10605115	Analog Circuit Principles	3	2-0	
ELECT 10605119	Digital Circuit Principles	3	2-0	
ELECT 10605173	Embedded Programming	3	2-0	
Third Semester				
ENGLISH 10801197	Technical Reporting	3	3-0	
PHYSICS 10806143	College Physics 1	3	2-2	
ELECT 10605131	Technical Calculus 1	4	3-2	
ELECT 10605143	Motors and Control Circuits	3	2-0	
ELECT 10605176	Microcontrollers	3	2-0	
ELECENG 10662112	AC/DC Electronics 3	3	2-0	
Fourth Semester				
SOC 20809203	Intro Sociology	3	3-0	
ELECT 10605108	Certified IPC Application Specialist (CIS) J-STD-001	1	0.5-1	
ELECT 10605132	Technical Calculus 2	4	3-2	
ELECT 10605145	Programmable Logic Controls	3	2-0	
ELECT 10605178	Networks, Interfacing and Programming	3	2-0	
ELECENG 10662124	Advanced Circuit Analysis	3	2-0	



Effective: 2016-2017

Program Number: 106621

Electrician Apprentice (ABC)

Program Number: 504139

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester ELEC 50413580	Trade Electrical Semester 1	2	3-1
Second Semester ELEC 50413581	Trade Electrical Semester 2	2	3-1
Third Semester ELEC 50413582	Trade Electrical Semester 3	2	3-1
Fourth Semester ELEC 50413583	Trade Electrical Semester 4	2	3-1
Fifth Semester ELEC 50413584	Trade Electrical Semester 5	2	3-1
Sixth Semester ELEC 50413585	Trade Electrical Semester 6	2	3.4-0.6
Seventh Semester ELEC 50413586	Trade Electrical Semester 7	2	3-1
Eighth Semester ELEC 50413587	Trade Electrical Semester 8	2	3-1
Ninth Semester ELEC 50413588	Trade Electrical Semester 9	2	3-1
Tenth Semester ELEC 50413589	Trade Electrical Semester 10	2	3-1



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Electronic Assembler

Program Number: 906051CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

			Hrs/Week
		Credits/Units	LEC-LAB
Required Courses			
ELECT 10605112	AC/DC Electronics 1	3	2-0
ELECT 10605118	Digital Circuit Techniques	3	1-4
ELECT 10605107	Certified IPC Application Specialist (CIS) A-610	1	1-0
ELECT 10605108	Certified IPC Application Specialist (CIS) J-STD-001	1	0.5-1



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Electronic Service Technician

Program Number: 316052

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

First Semester		
ELECT 10605107 Certifie	I IPC Application Specialist (CIS) A-610 1	1-0
ELECT 10605108 Certifie	IPC Application Specialist (CIS) J-STD-001 1	0.5-1
ELECT 10605112 AC/DC	Electronics 1 3	2-0
ELECT 10605113 Analog	Circuit Techniques 3	1-4
ELECT 10605118 Digital	Circuit Techniques 3	1-4
ENGLISH 10801195 Writter	Communication 3	3-0
Second Semester		
ELECT 10605114 AC/DC	Electronics 2 3	2-0
ELECT 10605115 Analog	Circuit Principles 3	2-0
ELECT 10605119 Digital	Circuit Principles 3	2-0
ELECT 10605123 Embed	led Device Concepts 3	2-0
MATH 10804133 Math 8	Logic 3	3-0



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Electronics

Program Number: 106051

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ELECT 10605112	AC/DC Electronics 1	3	2-0
ELECT 10605113	Analog Circuit Techniques	3	1-4
ELECT 10605118	Digital Circuit Techniques	3	1-4
ELECT 10605107	Certified IPC Application Specialist (CIS) A-610	1	1-0
ELECT 10605108	Certified IPC Application Specialist (CIS) J-STD-001	1	0.5-1
ENGLISH 10801195	Written Communication	3	3-0
Second Semester			
ELECT 10605114	AC/DC Electronics 2	3	2-0
ELECT 10605115	Analog Circuit Principles	3	2-0
ELECT 10605119	Digital Circuit Principles	3	2-0
ELECT 10605123	Embedded Device Concepts	3	2-0
MATH 10804133	Math & Logic	3	3-0
		-	
Third Semester			
ELECT 10605151	Instrumentation and Troubleshooting	3	2-0
ELECT 10605152	Digital Systems Analysis	3	2-0
ENGLISH 10801197	Technical Reporting	3	3-0
PHYSICS 10806143	College Physics 1	3	2-2
ELECT 10605143	Motors and Control Circuits	3	2-0
Fourth Semester		_	
ELECT 10605116	Advanced Circuit Techniques	3	2-0
ELECT 10605178	Networks, Interfacing and Programming	3	2-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
	Elective, Recommended Technical Elective as listed on Advising Report		



Emergency Medical Technician

Program Number: 305313

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

Credits/Units	LEC-LAB
2	1-2
3	1-0
	2 3



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Entrepreneurship

Program Number: 901452CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	LEC-LAB
Courses			
SMLBUS 10145102	Small Business Development	3	3-0
SMLBUS 10145105	Operations Management	3	3-0
SMLBUS 10145106	Small Business Marketing	3	3-0
SMLBUS 10145108	Field Experience	2	1-0
SMLBUS 10145185	Customer Service Management	3	3-0



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Program Number: 908091CERT

Ethnic Studies

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Literature Courses:			
ENGLISH 20801207	World Indigenous Literatures	3	3-0
ENGLISH 20801212	Ethnic Literature	3	3-0
ENGLISH 20801213	Native American Literature	3	3-0
ENGLISH 20801214	African American Literature	3	3-0
ENGLISH 20801222	U.S. Latino Literature	3	3-0
History Courses:			
HISTORY 20803214	Native American History - Liberal Arts Transfer	3	3-0
HISTORY 20803240	Afro-American History	3	3-0
Social Sciences Cours	Ses:		
SOC 10809172	Introduction to Diversity Studies	3	3-0
SOC 20809252	Race and Ethnicity in the U.S.	3	3-0
ANTHRO 20809283	Cultural Anthropology & Human Diversity	3	3-0
ANTHRO 20809286	The Anthropology of Globalization & Multiculturalism	3	3-0



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Facilities Management

Program Number: 904625CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
BUSADM 10102135	Project Management - Fundamentals	3	3-0
SUPDEV 10196136	Safety in the Workplace	3	3-0
IND MECH 10462336	Building Automation	3	0-6
IND MECH 10462318	Maintenance Management	2	0-4



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Program Number: 101044

Fashion Marketing

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

First Semester COMPSOFT 10103133 Excel - Beginning 1 0.27-1.5 COMPSOFT 10103137 Word - Beginning 1 0.27-1.5 COMPSOFT 10103133 PowerPoint - Beginning 1 0.27-1.5 COMPSOFT 10103143 PowerPoint - Beginning 1 0.27-1.5 MKTG 10104102 Marketing Principles 3 3-0 FSHNMKTG 10104195 Fashion Analysis 2 2-0 FSHNMKTG 10104195 Fashion Analysis 2 2-0 FSHNMKTG 10104195 Fashion: 1 1-0 FSHNMKTG 10104198 Fashion: CAD Lab 1 1-0 FSHNMKTG 10104198 Fashion CAD Lab 1 1-0 FSHNMKTG 10104122 Adobe Illustrator for Fashion 3 3-0 FSHNMKTG 10104122 Mobile Marketing (Social Media) 3 3-0 FSHNMKTG 10104122 Mobile Marketing (Social Media) 3 3-0 FSHNMKTG 10104122 Adobe Illustrator for Fashion 3 3-0 Scond Semester Festin Marketing Principles 2 2-0			Credits/Units	Hrs/Week LEC-LAB
COMPSOFT 10103133 Excel - Beginning 1 0.27-1.5 COMPSOFT 10103137 Word - Beginning 1 0.27-1.5 COMPSOFT 10103133 Word - Beginning 1 0.27-1.5 COMPSOFT 10103143 PowerPoint - Beginning 1 0.27-1.5 MKTG 10104102 Marketing Principles 3 3-0 FSHNMKTG 10104195 Fashion Analysis 2 2-0 FSHNMKTG 10104197 Apparel Marketing 1 1-0 FSHNMKTG 10104197 Apparel Marketing the Technical Design Track are advised to take Adobe Illustrator for Fashion: FSHNMKTG 10104197 Apparel Marketing Social Media Track are advised to take 3-0 Choose from one of the following: Students who choose the Retail Management Track are advised to take Retail Management: MKTG 10104122 Adobe Illustrator for Fashion 3 3-0 FSHNMKTG 10104122 Mobile Marketing (Social Media) 3 3-0 FSHNMKTG 10104122 Mobel Marketing (Social Media) 3 3-0 FSHNMKTG 10104122 Mobel Marketing (Social Media) 3 3-0 FSHNMKTG 10104122	First Semester			
COMPSOFT 10103143 PowerPoint - Beğinning 1 0.27-1.5 MKTG 10104102 Marketing Principles 3 3-0 KKTG 10104104 Selling Principles 3 3-0 FSHNMKTG 10104195 Fashion Analysis 2 2-0 FSHNMKTG 10104195 Fashion Analysis 2 2-0 FSHNMKTG 10104195 Fashion CAD Lab 1 1-0 Choose from one of the following. Students taking the Technical Design Track are advised to take Adobe Illustrator for Fashion: FSHNMKTG 10104192 Adobe Illustrator for Fashion 3 3-0 Choose from one of the following courses. Students who choose the Social Media Track are advised to take Retail Management: 3 3-0 Rote Mobile Marketing. Students who choose the Retail Management Track are advised to take Retail Management 3 3-0 FSHNMKTG 10104122 Adobe Illustrator for Fashion 3 3-0 3-0 Second Semester F Second Semester 2 2-0 FSHNMKTG 10104122 Adobe Illustrator for Fashion 3 3-0 Second Semester Second Semester		Excel - Beginning	1	0.27-1.5
MKTG 10104102Marketing Principles33-0MKTG 10104104Selling Principles33-0FSHNMKTG 10104195Fashion Analysis22-0FSHNMKTG 10104197Apparel Marketing33-0Choose from one of the following. Students taking the Technical Design Track are advised to take Adobe Illustrator for Fashion:11-0FSHNMKTG 10104198Fashion CAD Lab11-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Choose from one of the following courses. Students who choose the Social Media Track are advised to take Mobile Marketing. Students who choose the Retail Management Track are advised to take Mobile Marketing. Students who choose the Retail Management3-0FSHNMKTG 10104122Mobile Marketing (Social Media)3-0-0FSHNMKTG 10104124Retail Management33-0-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Second Semester522-0-0MATT 10304144Math of Finance33-0Second Semester22-0-0FSHNMKTG 10104129Vittlen Communication33-0PSYCH 10809199Psychology Of Human Relations33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0Choose fr	COMPSOFT 10103137	Word - Beginning	1	0.27-1.5
MKTG 10104104Selling Principles33-0FSHNMKTG 10104195Fashion Analysis22-0FSHNMKTG 10104197Apparel Marketing33-0Choose from one of the following. Students taking the Technical Design Track are advised to take Adobe Illustrator for Fashion:11-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Choose from one of the following courses. Students who choose the Social Media Track are advised to take Mobile Marketing. Students who choose the Retail Management Track are advised to take Retail Management:33-0KTG 10104122Mobile Marketing (Social Media)33-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0FSHNMKTG 10104122Mobile Marketing (Social Media)33-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Second Semester22-0FSHNMKTG 10104194Visual Merchandising32-2FSHNMKTG 10104195Textiles22-0MATH 10804144Math of Finance33-0PSYCH 10809199Psychology Of Human Relations33-0ShNMKTG 10104114Social Media Principles33-0SUPDEV 101805191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles on Communication <td>COMPSOFT 10103143</td> <td>PowerPoint - Beginning</td> <td>1</td> <td>0.27-1.5</td>	COMPSOFT 10103143	PowerPoint - Beginning	1	0.27-1.5
FSHNMKTG 10104195Fashion Analysis22-0FSHNMKTG 10104197Apparel Marketing33-0Choose from one of the following. Students taking the Technical Design Track are advised to take Adobe Illustrator for Fashion:11-0FSHNMKTG 10104198Fashion CAD Lab11-0FSHNMKTG 10104192Adobe Illustrator for Fashion33-0Choose from one of the following courses. Students who choose the Social Media Track are advised to take Mobile Marketing. Students who choose the Retail Management Track are advised to take Retail Management:33-0MKTG 10104162Mobile Marketing (Social Media)33-0FSHNMKTG 10104124Retail Management33-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Second SemesterFashion Communication33-0FSHNMKTG 10104194Visual Merchandising32-2FSHNMKTG 10104195Written Communication33-0PSYCH 10800199Psychology Of Huma Relations33-0Choose from one of the following courses:33-0FSHNMKTG 10104115Written Communication33-0DSYCH 10800199Psychology Of Huma Relations33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0COMM 108001197Tec	MKTG 10104102	Marketing Principles	3	3-0
FSHNMKTG 10104197Apparel Marketing33-0Choose from one of the following. Students taking the Technical Design Track are advised to take Adobe Illustrator for Fashion:11-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Choose from one of the following courses. Students who choose the Social Media Track are advised to take Mobile Marketing. Students who choose the Retail Management Track are advised to take Retail Management:33-0WKTG 10104122Mobile Marketing (Social Media)33-0FSHNMKTG 10104124Retail Management33-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0FSHNMKTG 10104124Retail Management33-0Second SemesterF522-0FSHNMKTG 10104194Visual Merchandising32-2FSHNMKTG 10104194Visual Merchandising33-0PSYCH 10809199Psychology Of Human Relations33-0Choose from one of the following courses: FSHNMKTG 10104114Adobe Photoshop Fashion Design33-0SUPDEV 10186191Principles of Supervision33-0Third SemesterF33-0FSHNMKTG 10104127Fashion Internship20.5-0Fourth SemesterF33-0FSHNMKTG 10104123Merchandise Plan/Control33-0COMM 10801196Oral/Interpersonal Communication33-0SUPDEV 10196191Principles of Supervision33-0COMM 1080119	MKTG 10104104	Selling Principles	3	3-0
Choose from one of the following. Students taking the Technical Design Track are advised to take Adobe Illustrator for Fashion:FSHNMKTG 10104122Adobe Illustrator for Fashion11-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Choose from one of the following courses. Students who choose the Social Media Track are advised to take Mobile Marketing. Students who choose the Retail Management Track are advised to take Retail Management:33-0MKTG 10104162Mobile Marketing (Social Media)33-0FSHNMKTG 10104124Retail Management33-0FSHNMKTG 10104122Adobe Illustrator for Fashion33-0Second SemesterF22-0FSHNMKTG 10104194Visual Merchandising32-2FSHNMKTG 10104195Written Communication33-0ENGLISH 10801195Written Communication33-0PSVCH 10809199Psychology Of Human Relations33-0Choose from one of the following courses:FFFSHNMKTG 10104120Adobe Photoshop Fashion Design33-0SUPDEV 10196191Principles of Supervision33-0SUPDEV 10196191Principles of Supervision33-0CMMTG 10104123Merchandise Plan/Control33-0COMM 10801196Oral/Interpersonal Communication33-0SUPDEV 101961197Technical Reporting33-0Retail Management33-03-0COMM 10801196Oral/Interpersonal Communication<	FSHNMKTG 10104195	Fashion Analysis	2	2-0
Adobe Illustrator for Fashion:Image: Constraint of the second state of the second	FSHNMKTG 10104197	Apparel Marketing	3	3-0
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MKTG 10104113Leadership Ethics in the Digital Age33-0MKTG 10104103Marketing Research33-0Choose from one of the following courses:33-0FSHNMKTG 10104186History of Costume33-0GRDSGN 10201198Social Media/Web Design Strategies33-0	COMM 10801196	Oral/Interpersonal Communication	3	3-0
MKTG 10104103Marketing Research33-0Choose from one of the following courses:555FSHNMKTG 10104186History of Costume33-0GRDSGN 10201198Social Media/Web Design Strategies33-0	ENGLISH 10801197		3	3-0
Choose from one of the following courses:33-0FSHNMKTG 10104186History of Costume33-0GRDSGN 10201198Social Media/Web Design Strategies33-0	MKTG 10104113		3	3-0
FSHNMKTG 10104186History of Costume33-0GRDSGN 10201198Social Media/Web Design Strategies33-0			3	3-0
GRDSGN 10201198 Social Media/Web Design Strategies 3 3-0				
5 5	FSHNMKTG 10104186	•	-	3-0
FSHNMKTG 10104118 Store Operations 3 1-0		5 S		
	FSHNMKTG 10104118	Store Operations	3	1-0



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SHNMKTG 10104182	Portfolio Presentation	З	3-0	
PEECH 10801198	Speech	3	3-0	
CON 10809195	Economics	3	3-0	
KTG 10104112	Marketing Design Strategies	3	3-0	
hoose from one of the	following courses:			
SHNMKTG 10104127	Technical Design Specifications for Fashion	3	3-0	
OURNAL 20801262	Social Media Writing	3	3-0	
MLBUS 10145185	Customer Service Management	3	3-0	



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Real world smart.

Finance

Program Number: 101142

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ACCTG 10101111	Accounting 1 - Principles	4	4-0
FINANCE 10114130	Personal Finance	3	3-0
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
COMPSOFT 10103139	Excel - Intermediate	1	0.27-1.5
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
Second Semester			
ACCTG 10101113	Accounting 2 - Principles	4	4-0
BUSADM 10102104	Business Statistics	3	3-0
COMPSOFT 10103145	Access - Beginning	1	0.27-1.5
FINANCE 10114128	Financial Institutions	3	3-0
BUSADM 10102160	Business Law 1	3	3-0
ECON 10809195	Economics	3	3-0
Third Semester			
ACCTG 10101118	Management Accounting	4	4-0
FINANCE 10114126	Corporate Finance	3	3-0
INSMGT 10162126	Introduction to Loss Investigaton (AIC 33)	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
COMM 20810205	Small Group & Interpersonal Communications	3	3-0
Fourth Semester			
FINANCE 10114127	Financial Analysis	3	3-0
FINANCE 10114140	Investments	3	3-0
BUSADM 10102143	Management Techniques	3	3-0
ENGLISH 10801197	Technical Reporting	3	3-0
SPEECH 10801198	Speech	3	3-0
	Elective	3	



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Fire Protection Technician

Program Number: 105032

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
FIRET 10503143	Building Construction	3	3-0
FIRET 10503144	OSHA for the Fire Service	3	3-0
FIRET 10503191	Principles of Emergency Services	2	2-0
EMS 10531102	Emergency Medical Technician 1	2	1-2
EMS 10531103	Emergency Medical Technician 2	3	1-0
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804107	College Mathematics	3	2-2
Second Semester FIRET 10503141	Firefighter 2/Hazardaya Materiala Operationa	1	1-0
FIRET 10503141	Firefighter 2/Hazardous Materials Operations Fire Fighting Principles	4	4-0
FIRET 10503142	Fire Recruit Academy	4 5	2-0
FIRET 10503154	Hazardous Materials Chemistry	2	2-0
COMM 10801196	Oral/Interpersonal Communication	3	2-0 3-0
CHEM 10806134	General Chemistry	4	3-2
PSYCH 10809199	Psychology Of Human Relations	3	3-2
	r sychology of Human Actations	5	50
Third Semester			
FIRET 10503148	Principles of Fire & Emergency Service Administration	4	4-0
FIRET 10503151	Fire Prevention	4	4-0
FIRET 10503195	Fire Behavior & Combustion	3	3-0
ENGLISH 10801197	Technical Reporting	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
Fourth Semester			
FIRET 10503156	Strategies, Tactics & Inc Mgmt	4	4-0
FIRET 10503157	Fire Investigation	3	3-0
FIRET 10503192	Principles Emergency Services/Survival	3	3-0
FIRET 10503193	Fire Protection Systems	3	3-0
FIRET 10503194	Fire Protection Hydraulics	3	3-0
	Elective	1	



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Madison Area Technical College

Fire Service Certification

Program Number: 305032

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

			Hrs/Week
		Credits/Units	LEC-LAB
Courses			
Choose from one of th	e two following Fire Recruit Academy courses:		
FIRET 30503300	Fire Recruit Academy - Fire Service Certification Program	5	5.55-3.88
FIRET 10503100	Fire Recruit Academy	5	2-0
EMS 10531102	Emergency Medical Technician 1	2	1-2
	Emergency Medical Technician 2	3	1-0



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Fitness and Wellness Specialist

Program Number: 301094

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
RECMGT 10109159	Wellness Coaching and Promotion	3	3-0
RECMGT 10109195	Recreation Industry Budget and Financial Management	3	3-0
MEDTERM 10501153	Body Structure & Function - Used in a variety of Degree Programs	3	3-0
BIOLOGY 20806262	Anatomy and Physiology for Exercise Lab	1	0-2
Second Semester			
RECMGT 10109173	Group Fitness Development	3	2-2
RECMGT 10109176	Personal Trainer Development	3	1-4
RECMGT 10109190	Recreation Seminar	1	1-0
RECMGT 10109189	Foundations of Worksite Wellness	3	3-0



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Fitness/Health Club Specialist

Program Number: 901091CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester (Fall)			
RECMGT 10109159	Wellness Coaching and Promotion	3	3-0
RECMGT 10109195	Recreation Industry Budget and Financial Management	3	3-0
MEDTERM 10501153	Body Structure & Function - Used in a variety of Degree Programs	3	3-0
BIOLOGY 20806262	Anatomy and Physiology for Exercise Lab	1	0-2
Second Semester (Spri	ng)		
RECMGT 10109173	Group Fitness Development	3	2-2
RECMGT 10109176	Personal Trainer Development	3	1-4
RECMGT 10109190	Recreation Seminar	1	1-0
RECMGT 10109189	Foundations of Worksite Wellness	3	3-0



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Gender and Women's Studies

Program Number: 908093CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Required Courses			
SOCSCI 20809206	Introduction to Women's Studies	3	3-0
Additional Course Lis	t		
Students must complete	e a minimum of 12 credits from the following:		
ENGLISH 20801211	Gay & Lesbian Literature	3	3-0
ENGLISH 20801250	Women In Literature	3	3-0
HISTORY 20803230	Women In History	3	3-0
HISTORY 20803233	Gender and Women's History in Cultural Representations	3	3-0
HISTORY 20803234	Gender and Women's Global History	3	3-0
PSYCH 20809201	Human Sexuality	3	3-0
SOC 20809204	Marriage and the Family	3	3-0
SOCSCI 20809210	Psychology of Men	3	3-0
SOCSCI 20809234	Psychology of Women	3	3-0
SOC 20809253	Sociology of Gender	3	3-0
SOC 20809277	Couple Relationships	1	1-0
ART 20815211	Art History: Women In Art	3	3-0



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General Accountancy

Program Number: 311013

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ACCTG 10101111	Accounting 1 - Principles	4	4-0
ACCTG 10101139	QuickBooks-Beginning	1	0.5-1
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
MATH 10804144	Math of Finance	3	3-0
Second Semester			
ACCTG 10101113	Accounting 2 - Principles	4	4-0
ACCTG 10101123	Tax 1	4	4-0
ACCTG 10101141	QuickBooks-Intermediate	1	0.5-1
FINANCE 10114130	Personal Finance	3	3-0
Third Semester			
ACCTG 10101121	Accounting 3-Intermediate	4	4-0
ACCTG 10101125	Cost Management	4	4-0
ACCTG 10101138	Accounting And Payroll Systems	3	2-2
Fourth Semester			
ACCTG 10101122	Accounting 4-Intermediate	4	4-0
ACCTG 10101137	Computerized Accounting Applications	2	1.5-1
ACCTG 10101142	Accounting Capstone	3	2-2



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Madison Area Technical College

Effective: 2016-2017

Program Number: 102011

Graphic Design

An Associate in Applied Arts D

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
GRDSGN 10201102	Design Fundamentals	3	0-6
GRDSGN 10201103	Drawing Fundamentals	3	0-6
GRDSGN 10201136	Concept Development	3	0-6
GRDSGN 10201181	Introduction to Computer Graphics	3	0-6
Second Semester			
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
GRDSGN 10201112	Color Media	3	0-6
GRDSGN 10201151	Typographic Design	3	0-6
GRDSGN 10201152	Drawing for Illustration	3	0-6
GRDSGN 10201177	WebPage Design	3	0-6
GRDSGN 10201182	Applied Computer Graphics	3	0-6
Third Semester			
COMM 10801196	Oral/Interpersonal Communication	3	3-0
ENGLISH 10801197	Technical Reporting	3	3-0
GRDSGN 10201106	Illustration	3	0-6
GRDSGN 10201121	Graphic Design	3	0-6
GRDSGN 10201128	Print & Design Production	3	0-6
PHOTO 10203130	Intro Digital Photography	2	0-4
Fourth Semester			
	Elective	1	
SOC 10809197	Contemporary Amer Society	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
GRDSGN 10201153	Integrated Design	3	0-6
GRDSGN 10201154	Design Project Management	3	0-6
GRDSGN 10201162	Portfolio Preparation - Graphic Design Program	2	0-4
GRDSGN 10201184	Electronic Page Layout	2	0-4



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Madison Area Technical College

HVAC Apprentice (ABC)

Program Number: 504019

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester HVAC 50401590	Trade Hvac Semester 1	2	3-1
Second Semester HVAC 50401591	Trade Hvac Semester 2	2	3-1
Third Semester HVAC 50401592	Trade Hvac Semester 3	2	3-1
Fourth Semester HVAC 50401593	Trade Hvac Semester 4	2	3-1
Fifth Semester HVAC 50401594	Trade Hvac Semester 5	2	3-1
Sixth Semester HVAC 50401595	Trade Hvac Semester 6	2	3-1
Seventh Semester HVAC 50401596	Trade Hvac Semester 7	2	3-1
Eighth Semester HVAC 50401597	Trade Hvac Semester 8	2	3-1



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Program Number: 905092CERT

Healthcare Administrative & Insurance

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
MEDTERM 10501101	Medical Terminology	3	3-0
MASST 31509302	Human Body in Health & Disease	3	6-0
MASST 31509307	Medical Office Insurance & Finance	2	4-0



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Healthcare Receptionist

Program Number: 301062

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
COMPSOFT 10103165	Outlook	1	0.27-1.5
ADMINPRF 10106107	Business Document Applications	3	1-4
ADMINPRF 10106139	Keyboard Skillbuilding	1	0.27-1.5
ADMINPRF 10106178	Medical Language for the Business Professional 1	2	1-2
ENGLISH 10801195	Written Communication	3	3-0
Second Semester			
ADMINPRF 10106109	Business Spreadsheet Applications	3	1-4
ADMINPRF 10106164	Customer Contact Skills	1	1-0.5
ADMINPRF 10106165	Medical Administrative Procedures	3	1-4
ADMINPRF 10106179	Medical Language for the Business Professional 2	2	1-2



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Madison Area Technical College

Hospitality Assistant

Program Number: 301091

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

HOSPT 10109101 CUL ARTS 10316101 ENGLISH 10801195

Exploring Hospitality Principles Of Sanitation Written Communication

,	0		
		Credits/Units	Hrs/Week LEC-LAB
		3	3-0
		1	1-0
		3	3-0



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Hospitality Management

Program Number: 101092

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
HOSPT 10109101	Exploring Hospitality	3	3-0
MKTG 10104102	Marketing Principles	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
CUL ARTS 10316101	Principles Of Sanitation	1	1-0
Second Semester			
ACCTG 10101106	Accounting Fundamentals	3	3-0
MKTG 10104114	Social Media Principles	3	3-0
EVTMGT 10109102	Fundamentals Of Meeting Mgmt	3	3-0
HOSPT 10109136	Hospitality Law	3	3-0
COMM 20810205	Small Group & Interpersonal Communications	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
Third Semester (summer			
HOSPT 10109157	Hospitality Internship	2	0-0
Fourth Semester			
EVTMGT 10109119	Event Professional Best Practices	3	3-0
HOSPT 10109125	Hospitality Leadership	3	3-0
HRMGT 10116145	Introduction to Human Resources	3	3-0
ECON 10809195	Economics	3	3-0
	Elective	3	
Fifth Semester		-	
HOSPT 10109131	Rooms Division Operation	3	3-0
HOSPT 10109134	Hotel/Restaurant Cost Control	3	3-0
SMLBUS 10145106	Small Business Marketing	3	3-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
	Elective	3	



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Program Number: 311094

Hospitality Specialist

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
MKTG 10104102	Marketing Principles	3	3-0	
HOSPT 10109101	Exploring Hospitality	3	3-0	
HOSPT 10109131	Rooms Division Operation	3	3-0	
ENGLISH 10801195	Written Communication	3	3-0	
MATH 10804123	Math with Business Applications	3	3-0	
Second Semester				
ACCTG 10101106	Accounting Fundamentals	3	3-0	
MKTG 10104114	Social Media Principles	3	3-0	
EVTMGT 10109102	Fundamentals Of Meeting Mgmt	3	3-0	
HOSPT 10109136	Hospitality Law	3	3-0	
COMM 20810205	Small Group & Interpersonal Communications	3	3-0	



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Human Resource Management

Program Number: 101162

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester		0	
BUSADM 10102134	Business Organization, Management, and Ethics Introduction to Human Resources	3	3-0 3-0
HRMGT 10116145 HRMGT 10116153	Meeting Facilitation	3 1	3-0 0.5-1
HRMGT 10116155 HRMGT 10116168	Employment Law	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
COMM 20810205	Small Group & Interpersonal Communications	3	3-0
Second Semester			
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
HRMGT 10116147	Wage, Salary & Benefits Admin	3	3-0
HRMGT 10116149	Effective Staffing	3	3-0
HRMGT 10116152	Organizational Training and Development	3	3-0
SPEECH 10801198	Speech	3	3-0
MATH 10804144	Math of Finance	3	3-0
Third Semester			
ACCTG 10101111	Accounting 1 - Principles	4	4-0
BUSADM 10102143	Management Techniques	3	3-0
HRMGT 10116148	Labor Relations	3	3-0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Fourth Semester			
ACCTG 10101154	Payroll Accounting	1	0.5-1
BUSADM 10102132	Strategic Leadership	3	3-0
BUSADM 10102135	Project Management - Fundamentals	3	3-0
COMPSOFT 10103143	PowerPoint - Beginning	1	0.27-1.5
COMPSOFT 10103145	Access - Beginning	1	0.27-1.5
MKTG 10104102	Marketing Principles	3	3-0
HRMGT 10116169	Human Resources Capstone	1	1-0
ENGLISH 10801197	Technical Reporting	3	3-0



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Human Resources

Curriculum

HRMGT 10116153

HRMGT 10116168

Meeting Facilitation

Employment Law

Certificate

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Program Number: 901161CERT

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3

0.5-1

3-0

ments for completion may vary depending on the sents should consult their Academic Requirements	semester in which a report available thro	student is admitted.
	Credits/Units	Hrs/Week LEC-LAB
redits from among the following		
Management Techniques	3	3-0
Excel - Beginning	1	0.27-1.5
PowerPoint - Beginning	1	0.27-1.5
Introduction to Human Resources	3	3-0
Wage, Salary & Benefits Admin	3	3-0
Labor Relations	3	3-0
Effective Staffing	3	3-0
Organizational Training and Development	3	3-0
	ments for completion may vary depending on the s ents should consult their Academic Requirements of fic requirements, as requirements are subject to cl medits from among the following Management Techniques Excel - Beginning PowerPoint - Beginning Introduction to Human Resources Wage, Salary & Benefits Admin Labor Relations Effective Staffing	redits from among the following Management Techniques 3 Excel - Beginning 1 PowerPoint - Beginning 1 Introduction to Human Resources 3 Wage, Salary & Benefits Admin 3 Labor Relations 3 Effective Staffing 3



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Human Resources and Payroll Generalist

Program Number: 311162

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
HRMGT 10116145	Introduction to Human Resources	3	3-0
HRMGT 10116147	Wage, Salary & Benefits Admin	3	3-0
HRMGT 10116149	Effective Staffing	3	3-0
HRMGT 10116152	Organizational Training and Development	3	3-0
HRMGT 10116153	Meeting Facilitation	1	0.5-1
HRMGT 10116168	Employment Law	3	3-0
Second Semester			
ACCTG 10101111	Accounting 1 - Principles	4	4-0
ACCTG 10101154	Payroll Accounting	1	0.5-1
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
COMPSOFT 10103145	Access - Beginning	1	0.27-1.5
MATH 10804144	Math of Finance	3	3-0



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Human Services Associate

Program Number: 105203

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
HUMSVC 10520105	Introduction to Human Services	3	3-0
HUMSVC 10520106	Orientation to Human Services Populations	3	3-0
HUMSVC 10520117	Interviewing	3	3-0
HUMSVC 10520135	Issues in Alcohol and Other Drug Abuse	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
Choose one of the followir to Developmental Psychol	ng courses. Note: Introduction to Psychology 20-809-231 is a ogy 20-809-233.	pre-requisite	
PSYCH 10809199	Psychology Of Human Relations	3	3-0
PSYCH 20809231	Intro Psychology	3	3-0
Second Semester			
HUMSVC 10520116	Group Work Skills	3	3-0
HUMSVC 10520130	Social Change Skills	3	3-0
ENGLISH 10801197	Technical Reporting	3	3-0
MATH 10804107	College Mathematics	3	2-2
SOC 10809197	Contemporary Amer Society	3	3-0
HUMSVC 10520136	Counseling Alcoholics and Other Drug Abusers	3	3-0
Third Semester			
HUMSVC 10520139	Human Services Agency Experience 1	4	0-0
HUMSVC 10520157	Human Services Counseling Skills	3	3-0
HUMSVC 10520188 Choose from one of the fo	Human Services Experience Conference 1	3	3-0
PSYCH 10809127	Human Development	3	3-0
PSYCH 20809233	Developmental Psychology	3	3-0
Fourth Semester			
HUMSVC 10520120	Community Service Agencies	3	3-0
HUMSVC 10520140	Human Services Agency Experience 2	4	0-0
HUMSVC 10520189	Human Services Experience Conference 2	3	3-0
SOC 10809172	Introduction to Diversity Studies	3	3-0
	Elective	3	



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IT-Android Applications Development

Program Number: 9015212CER

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses ITPROG 10152189	Android Applications Development	3	2-2
ITPROG 10152189	Advanced Android Development	3	2-2



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Madison Area Technical College

Program Number: 901505CERT

IT-Cisco Certification Professional

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester ITNET 10150155	CCNP Route	3	2-2
Second Semester ITNET 10150151	Advanced Networking Topics	3	2-2



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IT-Cisco Certified Networking Associate (CCNA)

Program Number: 901502CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
ITNET 10150121	Intro to Cisco Networking	3	2-2
ITNET 10150122	Cisco Networking 2	3	2-2
ITNET 10150123	Cisco Networking 3	3	2-2
ITNET 10150124	Cisco Networking 4	3	2-2



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IT-Cisco Entry Networking Technician

Program Number: 901504CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses ITNET 10150121	Intro to Cisco Networking	3	2-2
ITNET 10150122	Cisco Networking 2	3	2-2



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Madison Area Technical College

IT-CompTIA A+ Computer Essentials

Program Number: 901542CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses ITTECSUP 10154104	A+ Hardware Essentials	3	2-2
ITTECSUP 10154105	A+ Software Essentials	3	2-2



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IT-HDI Support Center Analyst

Program Number: 901545CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
Courses ITTECSUP 10154122	IT Service Concepts	3	2-2	
ITTECSUP 10154146	Help Desk Tools and Techniques	3	2-2	



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IT-Help Desk Support Specialist

Program Number: 311547

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
IT 10107111	Exploration of Information Technology	1	1-0
ITNET 10150160	IT Security Awareness	1	1-0
ITTECSUP 10154104	A+ Hardware Essentials	3	2-2
ITTECSUP 10154122	IT Service Concepts	3	2-2
ITTECSUP 10154146	Help Desk Tools and Techniques	3	2-2
COMPSOFT 10103136	Word - Intermediate	1	0.27-1.5
COMPSOFT 10103137	Word - Beginning	1	0.27-1.5
ENGLISH 10801195	Written Communication	3	3-0
Second Semester			
IT 10107175	Preparation for an IT Career	1	1-0
ITTECSUP 10154105	A+ Software Essentials	3	2-2
ITTECSUP 10154147	Supporting Emerging Technologies	3	2-2
ITTECSUP 10154148	Help Desk Specialist Internship	3	0-0
ITTECSUP 10154184	Enterprise Client	3	2-2
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
COMPSOFT 10103139	Excel - Intermediate	1	0.27-1.5



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IT-Information Security

Program Number: 901503CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Hrs/Weel	
		Credits/Units	LEC-LAB
Courses			
ITNET 10150129	Web Application Security	3	2-2
ITNET 10150164	Penetration Testing	3	2-2
ITNET 10150185	Computer Forensics	3	2-2
ITNET 10150196	Intrusion Detection	3	2-2
ITNET 10150127	Systems Administration Security	3	2-2



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Program Number: 901527CERT

IT-Java Professional Programming

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
ITPROG 10152111	Java Programming	3	2-2
ITPROG 10152112	Advanced Java Programming	3	2-2
ITPROG 10152113	Enterprise Java Programming	3	2-2



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IT-LAMP Open Source Development

Program Number: 901523CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

			Hrs/Week
		Credits/Units	LEC-LAB
First Semester			
ITPROG 10152157	Ruby on Rails Development	3	2-2
ITPROG 10152166	PHP Web Development with MySQL	3	2-2
ITPROG 10152167	Advanced PHP and MySQL Web Development	3	2-2
ITTECSUP 10154190	Linux Server	3	2-2



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IT-Microsoft Technologies

Program Number: 901547CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Hrs/Weel	
		Credits/Units	LEC-LAB
Courses			
ITTECSUP 10154171	Windows Server 1	3	2-2
ITTECSUP 10154172	Windows Server 2	3	2-2
ITTECSUP 10154184	Windows Client	3	2-2
ITTECSUP 10154194	Windows Server Pro	3	2-2



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IT-Microsoft Visual Studio.Net

Program Number: 901525CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
C		oreans, erms	
Courses			
ITPROG 10152103	Web Application Development Using ASP.NET	3	2-2
ITPROG 10152106	C# Programming	3	2-2
ITPROG 10152107	Advanced C# Programming	3	2-2



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IT-Mobile Applications Developer

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
IT 10107111	Exploration of Information Technology	1	1-0
ITNET 10150160	IT Security Awareness	1	1-0
ITPROG 10152119	Introduction to Programming with JavaScript	3	2-2
ITPROG 10152120	Website Development-XHTML	3	2-2
ITPROG 10152124	Introduction to Database	3	2-2
ENGLISH 10801195	Written Communication	3	3-0
SOC 10809197	Contemporary American Society	3	3-0
Second Semester	han Darmanaine	0	0.0
ITPROG 10152111	Java Programming	3	2-2
ITPROG 10152121	Advanced Website DevelopmentXML	3 3	2-2 2-2
ITPROG 10152125 ITPROG 10152130	SQL Database Programming	3 3	2-2
COMM 10801196	Systems Design	3	2-2 3-0
MATH 10804144	Oral/Interpersonal Communication Math of Finance	3 3	3-0 3-0
WATH 10604144	Main of Finance	3	3-0
Third Semester			
IT 10107175	Preparation for an IT Career	1	1-0
ITPROG 10152112	Advanced Java Programming	3	2-2
ITPROG 10152131	Systems Analysis	3	2-2
ITPROG 10152139	iOS Development	3	2-2
ENGLISH 10801197	Technical Reporting	3	3-0
	Recommended Elective or General Elective	3	
Fourth Semester			
ITPROG 10152168	AJAX and JavaScript Web Development	3	2-2
ITPROG 10152174	IT Mobile Development Internship	3	0-0
ITPROG 10152189	Android Applications Development	3	2-2
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
	Recommended Elective or General Elective	3	
List of Recommended E ITPROG 10152103		3	2-2
ITPROG 10152103 ITPROG 10152143	Web Application Development Using ASP.NET Advanced iOS Development	3	2-2 2-2
ITPROG 10152143 ITPROG 10152157		3	2-2 2-2
ITPROG 10152157 ITPROG 10152166	Ruby on Rails Development PHP Web Development with MySQL	3	2-2 2-2
ITPROG 10152166 ITPROG 10152195	Advanced Android Development	3	2-2
111 100 10132133		5	2-2



Effective: 2016-2017

Program Number: 101528

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IT-Network Security Specialist

Program Number: 101503

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
IT 10107111	Exploration of Information Technology	1	1-0	
ITNET 10150160	IT Security Awareness	1	1-0	
ITNET 10150121	Intro to Cisco Networking	3	2-2	
ITTECSUP 10154184	Enterprise Client	3	2-2	
ITTECSUP 10154190	Linux Server	3	2-2	
ENGLISH 10801195	Written Communication	3	3-0	
MATH 10804144	Math of Finance	3	3-0	
Second Semester				
ITNET 10150127	Systems Administration Security	3	2-2	
ITNET 10150194	Firewall/VPN Technologies	3	2-2	
ITPROG 10152109	Python Programming	3	2-2	
ITTECSUP 10154171	Windows Server 1	3	2-2	
COMM 10801196	Oral/Interpersonal Communication	3	3-0	
PSYCH 10809199	Psychology Of Human Relations	3	3-0	
Third Semester				
IT 10107175	Preparation for an IT Career	1	1-0	
ITNET 10150129	Web Application Security	3	2-2	
ITNET 10150185	Computer Forensics	3	2-2	
ITNET 10150196	Intrusion Detection	3	2-2	
	Choose a course from one of three emphasis areas: Networking, Programming, or Systems Administration	3		
ENGLISH 10801197	Technical Reporting	3	3-0	
Fourth Semester				
ITNET 10150164	Penetration Testing	3	2-2	
ITNET 10150193	Security Design	3	2-2	
ITNET 10150197	Network Security Internship	3	2-2	
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0	
SOC 10809197	Contemporary American Society	3	3-0	
	Elective	3		
Emphasis Choices Networking				
ITNET 10150122 Programming	Cisco Networking 2	3	2-2	
ITPROG 10152120 Systems Administration	Website Development-XHTML	3	2-2	
ITTECSUP 10154172	Windows Server 2	3	2-2	



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Program Number: 101502

IT-Network Specialist

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
IT 10107111	Exploration of Information Technology	1	1-0
ITNET 10150160	IT Security Awareness	1	1-0
ITNET 10150121	Intro to Cisco Networking	3	2-2
ITTECSUP 10154184	Enterprise Client	3	2-2
ITTECSUP 10154104	A+ Hardware Essentials	3	2-2
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
Second Semester		_	
ITNET 10150122	Cisco Networking 2	3	2-2
ITTECSUP 10154122	IT Service Concepts	3	2-2
ITTECSUP 10154171	Windows Server 1	3	2-2
ITTECSUP 10154190	Linux Server	3	2-2
COMM 10801196	Oral/Interpersonal Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Third Semester			4.0
IT 10107175	Preparation for an IT Career	1	1-0
ITNET 10150123	Cisco Networking 3	3	2-2
ITNET 10150124	Cisco Networking 4	3	2-2
ITNET 10150150	VoIP Convergence Fundamentals	3	2-2
ENGLISH 10801197	Technical Reporting	3	3-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
Fourth Semester ITNET 10150151	Advanced Natworking Tables	3	2-2
ITNET 10150151	Advanced Networking Topics Firewall/VPN Technologies	3	2-2
ITNET 10150194	Networking Internship	3	2-2
ITPROG 10152109	Python Programming	3	2-2
SOC 10809197	Contemporary American Society	3	2-2 3-0
300 10809197	Elective	3	3-0
Recommended Electives			
Elective must be associate	e degree (10-level) or college transfer (20-level) courses		
ITNET 10150127	Systems Administration Security	3	2-2
ITPROG 10152120	Website Development-XHTML	3	2-2
ITTECSUP 10154172	Windows Server 2	3	2-2
ITTECSUP 10154194	Windows Server Pro	3	2-2
ITTECSUP 10154175	VMware Certified Professional (VCP)	3	2-2



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IT-PHP Professional Web Developer

Program Number: 901528CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses ITPROG 10152166	PHP Web Development with MySQL	3	2-2
ITPROG 10152167	Advanced PHP and MySQL Web Development	3	2-2



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IT-Systems Administration Specialist

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
IT 10107111	Exploration of Information Technology	1	1-0
ITNET 10150121	Intro to Cisco Networking	3	2-2
ITNET 10150160	IT Security Awareness	1	1-0
ITTECSUP 10154104	A+ Hardware Essentials	3	2-2
ITTECSUP 10154184	Enterprise Client	3	2-2
ENGLISH 10801195	Written Communication	3	3-0
SOC 10809197	Contemporary American Society	3	3-0
Second Semester			
ITTECSUP 10154105	A+ Software Essentials	3	2-2
ITTECSUP 10154118	Infrastructure Automation	3	2-2
ITTECSUP 10154146	Help Desk Tools and Techniques	3	2-2
ITTECSUP 10154171	Windows Server 1	3	2-2
COMM 10801196	Oral/Interpersonal Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
Third Semester			
IT 10107175	Preparation for an IT Career	1	1-0
ITTECSUP 10154172	Windows Server 2	3	2-2
ITTECSUP 10154174	Trends in Computer Systems Administration	3	2-2
ITTECSUP 10154190	Linux Server	3	2-2
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
	Elective	3	
Fourth Semester			
ITTECSUP 10154175	VMware Certified Professional (VCP)	3	2-2
ITTECSUP 10154194	Windows Server Pro	3	2-2
ITTECSUP 10154198	Systems Administration Internship	3	0-0
ENGLISH 10801197	Technical Reporting	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
	Elective	3	
Recommended Elective			
	ate degree (10-level) or college transfer (20-level) courses.	4	0.07.4.5
ADMINPRF 10106101	Keyboarding Introduction	1	0.27-1.5
ITPROG 10152109 ITPROG 10152120	Python Programming Website Development-XHTML	3	2-2 2-2
ITTECSUP 10154122	IT Service Concepts	3 3	2-2 2-2
111L030F 10134122		3	2-2



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Program Number: 101547

Madison Area Technical College

Program Number: 901543CERT

IT-VMware Certified Professional

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
Courses ITTECSUP 10154175	VMware Certified Professional (VCP)	3	2-2	



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IT-Web Software Developer

Program Number: 101524

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
IT 10107111	Exploration of Information Technology	1	1-0
ITNET 10150160	IT Security Awareness	1	1-0
ITPROG 10152119	Introduction to Programming with JavaScript	3	2-2
ITPROG 10152120	Website Development-XHTML	3	2-2
ITPROG 10152124	Introduction to Database	3	2-2
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
Second Semester			
	Emphasis Area course #1		
ITPROG 10152125	SQL Database Programming	3	2-2
ITPROG 10152130	Systems Design	3	2-2
ITPROG 10152166	PHP Web Development with MySQL	3	2-2
COMM 10801196	Oral/Interpersonal Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Third Semester			
IT 10107175	Emphasis Area course #2 Preparation for an IT Career	1	1-0
ITPROG 10152121	Advanced Website DevelopmentXML	3	2-2
ITPROG 10152121 ITPROG 10152131	Systems Analysis	3	2-2
ENGLISH 10801197	Technical Reporting	3	3-0
ENGEISTI 10001197	Elective	3	3-0
Fourth Semester			
	Emphasis Area course #3		
ITPROG 10152132	Web Software Developer Internship	3	0-0
ITPROG 10152168	AJAX and JavaScript Web Development	3	2-2
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
SOC 10809197	Contemporary American Society	3	3-0
	Elective	3	
.NET Emphasis		-	
ITPROG 10152106	C# Programming	3	2-2
ITPROG 10152107	Advanced C# Programming	3	2-2
ITPROG 10152103	Web Application Development Using ASP.NET	3	2-2
Java Emphasis		2	
ITPROG 10152111	Java Programming	3	2-2
ITPROG 10152112	Advanced Java Programming	3	2-2
ITPROG 10152113	Enterprise Java Programming	3	2-2



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PHP Emphasis				
ITTECSUP 10154190	Linux Server	3	2-2	
ITPROG 10152167	Advanced PHP and MySQL Web Development	3	2-2	
ITPROG 10152157	Ruby on Rails Development	3	2-2	



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Real world smart.

Program Number: 901529CERT

IT-iOS Applications Development

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
TPROG 10152139	iOS Development	3	2-2
TPROG 10152143	Advanced iOS Development	3	2-2
TPROG 10152153	Professional iOS Development	3	2-2



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Associate in Applied Science

Effective: 2016-2017

Program Number: 108251

Curriculum		
The courses listed below outline the requirements for completion for students off academic year. Requirements for completion may vary depending on the semes Current/continuing students should consult their Academic Requirements report center account for specific requirements, as requirements are subject to change.	ter in which a available thro	student is admitted.
	Credits/Units	Hrs/Week LEC-LAB
General Education Core (21-30 credits)		
Select one from each content group:		
Communications	6	
Social Science	3	
Behavior Science	3	
Math/Science	3	
Additional General Studies Courses	6	
Individualized Technical Studies Courses (36-49 credits)		
Students are required to complete a minimum of 36 credit hours relevant to career goals. of 20 of these credits must be focused in one discipline.	. A minimum	
Electives (0-6 credits) Students may complete up to six credit hours of electives relevant to career goals. You n your electives to take additional technical courses.	nay utilize	



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Industrial Automation - Post Baccalaureate

Program Number: 904623CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Hrs/Week	
		Credits/Units	LEC-LAB
Courses			
IND MECH 10462327	Electronic Circuits for Maintenance	3	0-6
IND MECH 10462324	Programmable Logic Controllers 1	3	0-6
IND MECH 10462326	Programmable Logic Controllers 2	3	0-6
IND MECH 10462328	Interfacing Sensors with Computer Controls	3	0-6
IND MECH 10462340	Manufacturing Systems, Application and Control	3	0-6



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Industrial Electrician Apprentice

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Firsth Semester ELEC 50413542	Tech El Ind Sem 1	2	3.4-0.6
Second Semester ELEC 50413543	Tech El Ind Sem 2	2	3.4-0.6
Third Semester ELEC 50413544	Tech El Ind Sem 3	2	3.4-0.6
Fourth Semester ELEC 50413545	Tech El Ind Sem 4	2	3.4-0.6
Fifth Semester ELEC 50413546	Tech El Ind Sem 5	2	3.4-0.6
Sixth Semester ELEC 50413547	Tech El Ind Sem 6	2	3.4-0.6
Seventh Semester ELEC 50413548	Tech El Ind Sem 7	2	3.4-0.6
Eighth Semester ELEC 50413549	Tech El Ind Sem 8	2	3.4-0.6
Ninth Semester ELEC 50413552	Tech El Ind Sem 9	2	3.44-0.55
Tenth Semester ELEC 50413553	Tech El Ind Sem 10	2	3.44-0.55



Effective: 2016-2017

Program Number: 504131

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Program Number: 906232CERT

Industrial Maintenance Manufacturing Essentials

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
INDMANUF 10623100	Safety for Industry	1	0-2
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
INDMANUF 10623300	Fluid Power 1 for Industry	1	0-2
MATH 31804381	Machine Tool Math 1	2	4-0
COMM 32801350	Workplace Communication for Industry	1	2-0



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Industrial Maintenance Mechanic

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		•	Hrs/Week
		Credits/Units	LEC-LAB
First Semester			
IND MECH 10462320	DC/AC Circuits	3	0-6
INDMANUF 10623100	Safety for Industry	1	0-2
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
INDMANUF 10623300	Fluid Power 1 for Industry	1	0-2
INDMANUF 10623301	Fluid Power 2 for Industry	2	0-4
MACHT 32420330	Metal Processes 1	2	2-2
MATH 31804381	Machine Tool Math 1	2	4-0
MATH 31804382	Machine Tool Math 2	1	2-0
Second Semester			
IND MECH 10462304	Industrial Fluid Distribution Systems	2	0-4
IND MECH 10462306	Metal Processes Maintenance	2	0-4
IND MECH 10462311	Industrial Equipment Mechanisms 2	1	0-2
IND MECH 10462322	Industrial Electricity and Controls	4	0-8
INDMANUF 10623310	Mechanisms for Industry 1	1	0-2
SMLBUS 10145189	Customer Relations	2	2-0



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Program Number: 314622

Industrial Maintenance Technician

A Two Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
IND MECH 10462320	DC/AC Circuits	3	0-6
INDMANUF 10623100	Safety for Industry	1	0-2
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
INDMANUF 10623300	Fluid Power 1 for Industry	1	0-2
INDMANUF 10623301	Fluid Power 2 for Industry	2	0-4
MACHT 32420330	Metal Processes 1	2	2-2
MATH 31804381	Machine Tool Math 1	2	4-0
MATH 31804382	Machine Tool Math 2	1	2-0
Second Semester			
IND MECH 10462304	Industrial Fluid Distribution Systems	2	0-4
IND MECH 10462306	Metal Processes Maintenance	2	0-4
IND MECH 10462311	Industrial Equipment Mechanisms 2	1	0-2
IND MECH 10462322	Industrial Electricity and Controls	4	0-8
INDMANUF 10623310	Mechanisms for Industry 1	1	0-2
SMLBUS 10145189	Customer Relations	2	2-0
Third Semester			
IND MECH 10462314	Industrial Maint Mechanic 1	3	0-6
IND MECH 10462318	Maintenance Management - Industrial Maintenance Program	2	0-4
IND MECH 10462324	Programmable Logic Controllers 1	3	0-6
IND MECH 10462327	Electronic Circuits for Maintenance	3	0-6
IND MECH 10462330	Heating and Air Conditioning 1	3	0-6
IND MECH 10462334	Facilities Maintenance	3	0-6
Fourth Semester			
IND MECH 10462316	Industrial Maintenance Mechanic 2	3	0-6
IND MECH 10462326	Programmable Logic Controllers 2	3	0-6
IND MECH 10462328	Interfacing Sensors with Computer Controls	3	0-6
IND MECH 10462332	Heating and Air Conditioning 2	3	0-6
IND MECH 10462336	Building Automation	3	0-6
IND MECH 10462340	Manufacturing Systems, Application and Control	3	0-6



Effective: 2016-2017

Program Number: 324621

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Industrial Mechanic - HVAC

Program Number: 314623

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
IND MECH 10462320	DC/AC Circuits	3	0-6
IND MECH 10462330	Heating and Air Conditioning 1	3	0-6
IND MECH 10462334	Facilities Maintenance	3	0-6
INDMANUF 10623100	Safety for Industry	1	0-2
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
INDMANUF 10623300	Fluid Power 1 for Industry	1	0-2
MACHT 32420330	Metal Processes 1	2	2-2
MATH 31804381	Machine Tool Math 1	2	4-0
MATH 31804382	Machine Tool Math 2	1	2-0
Second Semester			
IND MECH 10462304	Industrial Fluid Distribution Systems	2	0-4
IND MECH 10462322	Industrial Electricity and Controls	4	0-8
IND MECH 10462332	Heating and Air Conditioning 2	3	0-6
IND MECH 10462336	Building Automation	3	0-6
INDMANUF 10623310	Mechanisms for Industry 1	1	0-2
SMLBUS 10145189	Customer Relations	2	2-0



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Injection Mold Set-Up (Plastic) Apprentice

Program Number: 504201

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
PLASTIC 50463501	Industrial Math 1	0	0.72-0.22
PLASTIC 50463507	Inj Mold Processes 1/Schemat 1	1	2.22-0.72
Second Semester			
PLASTIC 50463502	Industrial Math 2	0	0.72-0.22
PLASTIC 50463508	Inj Mold Processes 2/Schmemat 2	1	2.22-0.72
Third Semester			
PLASTIC 50463503	Industrial Math 3	0	0.72-0.22
PLASTIC 50463509	Inj Mold Processes 3 And Spc 1	1	2.22-0.72
Fourth Semester			
PLASTIC 50463504	Industrial Math 4	0	0.72-0.22
PLASTIC 50463510	Inj Mold Process 4 And Spc 2	1	2.22-0.72
Fifth Semester			
PLASTIC 50463517	Basic Machining Practices 1	1	2.22-0.72
PLASTIC 50463519	Fluid Power 1	0	0.72-0.22
Sixth Semester			
PLASTIC 50463518	Basic Machining Practices 2	1	2.22-0.72
PLASTIC 50463520	Fluid Power 2	0	0.72-0
Seventh Semester			
PLASTIC 50463521	Electricity/Electronics 1	0	0.72-0.22
PLASTIC 50463523	Thermoset/Mold Prac 1 & Insp 1	1	2.22-0.72
Eighth Semester			
PLASTIC 50463522	Electricity/Electronics 2	0	0.72-0.22
PLASTIC 50463524	Thermoset/& Mold Prac 2 & Insp 2	1	2.22-0.72



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Interdisciplinary Global Studies

Program Number: 901401CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
World Language (3-8 cre			
	richment courses in French, Spanish, Chinese, German, A	Arabic, etc., may	
count as one credit each. SPANISH 10802102	Introductory Spanish Conversation 1	3	3-0
SPANISH 20802211	Spanish 1 - Liberal Arts Transfer	3	3-2
SPANISH 20802211 SPANISH 20802212	Spanish 2 - Liberal Arts Transfer	4	3-2
SPANISH 20802212	Spanish 3 - Liberal Arts Transfer	4	3-2
SPANISH 20802214	Spanish 4 - Liberal Arts Transfer	4	3-2
SPANISH 20802215	Spanish 5	3	3-0
FRENCH 20802221	French 1 - Liberal Arts Transfer	4	3-2
FRENCH 20802222	French 2 - Liberal Arts Transfer	4	3-2
FRENCH 20802223	French 3 - Liberal Arts Transfer	4	3-2
FRENCH 20802224	French 4 - Liberal Arts Transfer	4	3-2
CHINESE 20802230	Introduction to Mandarin Chinese	3	2-2
CHINESE 20802231	Introduction to Mandarin Chinese 2	3	2-2
ARABIC 20802240	Intro to Modern Arabic 1	3	2-2
ARABIC 20802241	Intro to Modern Arabic 2	3	2-2
GLBL ED 10140101 MKTG 10104187 HOSPT 10109182 GLBL ED 10140112 SPANISH 20802216 CHEM 20806290	Traditional Healing in Cross Cultural Context Global Studies Seminar Global Studies Seminar Renewable Energy for the Developing World Spanish Culture & Civilization - Liberal Arts Transfer Renewable Energy for International Development	3 3 3 4 3	3-0 3-0 3-0 3-0 4-0 3-0
Study Abroad Opportun		3	3-0
Carlow, Ireland			
Cuemavaca, Mexico			
Salzburg, Austria			
San Jose, Costa Rica			
Seville, Spain			



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Xi'an, China

Internationalized Courses (0-9 credits) Complete up to 9 credits of coursework to bring the certificate to a total of 15 credits.

801 English

801 English				
ENGLISH 20801207	World Indigenous Literatures	3	3-0	
ENGLISH 20801215	British Literature 1	3	3-0	
ENGLISH 20801216	British Literature 2	3	3-0	
ENGLISH 20801219	Western World Lit: Classical Antiquity to the Middle Ages	3	3-0	
ENGLISH 20801220	Western World Lit: Early Renaissance to Present	3	3-0	
ENGLISH 20801223	Peace, Conflict, and Literature: The Arts of the Contact	3	3-0	
	Zone	0	00	
ENGLISH 20801224	Special Topics in International Literature	3	3-0	
ENGLISH 20801226	Introduction to African Literature	3	3-0	
ENGLISH 20801230	Classical Mythology	3	3-0	
ENGLISH 20801231	19th c. Russian Literature in Translation	3	3-0	
ENGLISH 20801232	20th c. Russian/Soviet Literature in Translation	3	3-0	
JOURNAL 20801252	World Issues Journalism	3	3-0	
0001.1.0.2.2000.202		U U	00	
803 History				
HISTORY 20803204	Making of Modern Europe	3	3-0	
HISTORY 20803205	Europe and Modern World	3	3-0	
HISTORY 20803206	British History Since 1688 - Liberal Arts Transfer	3	3-0	
HISTORY 20803220	History Of West Civilization 1	3	3-0	
803 20803221	Hist West Civ 2	3	3-0	
HISTORY 20803224	History of Sub Saharan Africa	3	3-0	
HISTORY 20803225	World In 20th Century	3	3-0	
HISTORY 20803225	World In 20th Century	3	3-0	
HISTORY 20803226	East Asian Civilization	3	3-0	
HISTORY 20803229	Vietnam/American-1945-Present	3	3-0	
HISTORY 20803229 HISTORY 20803230		3	3-0	
	Women In History			
HISTORY 20803233 HISTORY 20803234	Gender and Women's History in Cultural Representations	3 3	3-0 3-0	
HISTORY 20803234	Gender and Women's Global History	3	3-0	
805 Music				
MUSIC 20805207	World Music	3	3-0	
MUSIC 20805232	International Arts Intensive-Music	3	3-0	
MUSIC 20805279	World Drumming Ensemble 1	1	0-2	
MUSIC 20805280	World Drumming Ensemble 2	1	0-2	
100310 20003200		1	0-2	
806 Natural Science				
BIOLOGY 20806280	Environmental Issues	3	3-0	
5102001 20000200		U	00	
807 Physical Education				
PHYED 20807260	Martial Arts Fundamentals	1	0-2	
809 Social and Behavior	ral Science			
ECON 20809214	Intro International Econ	3	3-0	
POLISCI 20809220	American Foreign Policy	3	3-0	
POLISCI 20809223	International Relations	3	3-0	
ECON 20809228	Environmental Economics	3	3-0	
POLISCI 20809243	Comparative Politics	3	3-0	
POLISCI 20809244	Russian Politics	3	3-0	
POLISCI 20809245	Latin American Politics	3	3-0	
POLISCI 20809246	African Politics	3	3-0	
POLISCI 20809247	Introduction to East Asian Politics	3	3-0	
SOC 20809251	Sociology of the Middle East and North Africa	3	3-0	
PHILOS 20809263	East/West World View - Liberal Arts Transfer	3	3-0	
809 20809278	Intro to Buddhism	3	3-0	
ANTHRO 20809280	General Anthropology	3	3-0	
,	Contra / miniopology	0	00	



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ANTHRO 20809281	Archaeology & Prehistoric World	3	3-0
ANTHRO 20809283	Cultural Anthropology & Human Diversity	3	3-0
ANTHRO 20809285	Anthropology of Myth, Magic, and Religion	3	3-0
ANTHRO 20809286	The Anthropology of Globalization & Multiculturalism	3	3-0
810 Speech/Drama			
DRAMA 20810232	International Arts Intensive-Theatre	3	3-0
815 Art			
ART 20815200	Art History: Ancient to Medieval	3	3-0
ART 20815210	Art History: Renaissance to Modern	3	3-0
ART 20815211	Art History: Women In Art	3	3-0
Other Disciplines			
BUSADM 10102150	Introduction to International Business	3	3-0
MKTG 10104180	International Marketing	3	3-0
FSHNMKTG 10104183	International Business in Fashion	2	0-4
PARALEG 10110171	Law & Contemporary Problems	3	3-0
GLBL ED 10140107	Perspectives on Study Abroad	1	1-0
INSMGT 10162136	Current Issues in Risk Management and Insurance	1	1-0
CUL ARTS 10316112	Cuisines of the World	4	0-8
INDSGN 10304129	History of Interior Design	3	2-2
NRSAD 10543291	Community Cultural Health Care	3	1-0
LANG INT 31538303	Cultural Competency and the Medical Setting	2	4-0
LANG INT 31538304	Introduction to Interpreting in Spanish	2	4-0
LANG INT 31538305	Introduction to Basic Translation Skills in Spanish	2	4-0
COOKING 60303652	Foreign/Ethnic Foods	0	0.22-0.88



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Program Number: 103041

Interior Design

An Associate in Applied Arts D

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Summer (prior to start of	f program)		
INDSGN 10304100	Survey of the Interior Design Profession	1	1-0
First Semester			
INDSGN 10304102	Fundamentals of Design	3	1-4
INDSGN 10304104	Basic Architectural Drawing	3	1-4
INDSGN 10304105	Building and Furniture Construction	3	2-2
INDSGN 10304107	Interior Design Textiles	3	2-2
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
Second Semester			
INDSGN 10304120	Advanced Architectural Drawing	2	0-4
INDSGN 10304125	Residential Design 1	3	1-4
INDSGN 10304127	Materials and Finishes	2	1-2
INDSGN 10304129	History of Interior Design	3	2-2
INDSGN 10304161	Visual Communication for Interior Design	3	1-4
SPEECH 10801198	Speech	3	3-0
Third Semester			
INDSGN 10304133	Commercial Design	5	1-8
INDSGN 10304135	Lighting	2	1-2
INDSGN 10304142	Sales & Professional Practice	3	2-2
INDSGN 10304146	Trends and Issues in Interior Design	2	1-2
COMM 10801196	Oral/Interpersonal Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
		C C	00
Fourth Semester			
INDSGN 10304132	Kitchen & Bath Design	5	1-8
INDSGN 10304143	Residential Design 2	3	2-2
INDSGN 10304145	Interior Design Internship	2	0-0
INDSGN 10304147	Portfolio Development	1	0-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0



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Introduction to the Instructional Assistant Career

Program Number: 805221

Advanced Technical Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
EDSVC 10522103	IA: Introduction to Educational Practices	3	3-0
EDSVC 10522106	IA: Child and Adolescent Development	3	2-2
EDSVC 10522107	IA: Overview of Special Education	3	3-0
EDSVC 10522111	IA: Guiding and Managing Behavior	3	2-2



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Ironworker Apprentice

Program Number: 504371

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester STEELIRN 50437535	Combined Weld for IW	2	1-3	
STEELIRN 50437570	Reinforcing Steel/Post Tensioning/Math	2	3-1	
Second Semester STEELIRN 50437536 STEELIRN 50437571	Gmaw/Fcaw Welding Ornamental	2 2	1-3 3-1	
Third Semester STEELIRN 50437537 STEELIRN 50437703	Gtaw (Gas Tungson Arc Welding) Structural Steel Erection 1	2 3	1-3 3-3	



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Effective: 2016-2017

Jail Officer

Program Number: 905042CERT

Certificate

CurriculumThe courses listed below outline the requirements for completion for students officially admitted in the 2016-2017
academic year. Requirements for completion may vary depending on the semester in which a student is admitted.
Current/continuing students should consult their Academic Requirements report available through their student
is admitted.kk



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Program Number: 908012CERT

Journalism

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Required Courses			
JOURNAL 20801245	Introduction to Journalism	3	3-0
JOURNAL 20801246	Investigative Journalism	3	3-0
JOURNAL 20801253	Documentary Storytelling	3	2-2
JOURNAL 20801262	Social Media Writing	3	3-0
JOURNAL 20801271	Journalism Practicum 1	2	2-0
Electives			
Students must also com	plete at least a minimum 5 credits from the following electives		
PHOTO 10203173	Photojournalism	2	0-4
VICOM 10206147	Introduction to DSLR Video Production	2	0-4
JOURNAL 20801251	Introduction to Mass Communication	4	4-0
JOURNAL 20801252	World Issues Journalism	3	3-0
JOURNAL 20801272	Journalism Practicum 2	2	2-0
JOURNAL 20801273	Journalism Practicum 3	2	2-0
JOURNAL 20801274	Journalism Practicum 4	2	2-0
ART 20815239	Digital Photography	3	0-6
GRDSGN 10201181	Introduction to Computer Graphics	3	0-6
GRDSGN 10201177	WebPage Design	3	0-6



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Liberal Arts Transfer

Program Number: 208001-A

Associate in Arts

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

its) sition - English 1 and one other composition course (edits must be in public speaking. nglish 1 nglish 2 troduction to Journalism vestigative Journalism troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate ral Interpretation	3 3 3 3 4 3 3 3	3-0 3-0 3-0 3-0 4-0 3-0 3-0
sition - English 1 and one other composition course (edits must be in public speaking. nglish 1 nglish 2 troduction to Journalism vestigative Journalism troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate	3 3 3 3 4 3 3 3	3-0 3-0 3-0 4-0 3-0
nglish 1 nglish 2 troduction to Journalism vestigative Journalism troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate	3 3 4 3 3 3	3-0 3-0 3-0 4-0 3-0
nglish 2 troduction to Journalism vestigative Journalism troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate	3 3 4 3 3 3	3-0 3-0 3-0 4-0 3-0
nglish 2 troduction to Journalism vestigative Journalism troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate	3 3 4 3 3 3	3-0 3-0 3-0 4-0 3-0
Troduction to Journalism vestigative Journalism troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate	3 3 4 3 3	3-0 3-0 4-0 3-0
vestigative Journalism troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate	3 4 3 3	3-0 4-0 3-0
troduction to Mass Communication peech n-Air Performance neory & Practice of Argumentation and Debate	4 3 3	4-0 3-0
peech n-Air Performance neory & Practice of Argumentation and Debate	3 3	3-0
n-Air Performance neory & Practice of Argumentation and Debate	3	
n-Air Performance neory & Practice of Argumentation and Debate	3	
neory & Practice of Argumentation and Debate	-	2.2
, ,	0	2-2
ral Interpretation	3	3-0
	3	3-0
ducation (1 credit)		
onditioning/Weight Training	1	0-2
troduction to Kinesiology	2	2-0
eginning Volleyball	1	0-2
wimming for Fitness	1	0-2
eginning Swimming	1	0-2
/ater Exercise	1	0-2
feguard Training	2	1-2
eginning Tennis	1	0-2
ocial Dance	1	0-2
azz 1	1	0-2
allet	1	0-2
adminton	1	0-2
eginning Pilates	1	0-2
eginning Yoga	1	0-2
	2	1-2
termediate Yoga	1	0-2
/ellness Today	2	1-2
ealth & Fitness for Life	1	0-2
lueprint for Healthy Living	2	2-0
cycle Conditioning	1	0-2
, .	1	0-2
	troduction to Kinesiology eginning Volleyball wimming for Fitness eginning Swimming fater Exercise feguard Training eginning Tennis ocial Dance azz 1 allet adminton eginning Pilates eginning Yoga rev/Care Athletic Injuries termediate Yoga fellness Today ealth & Fitness for Life ueprint for Healthy Living cycle Conditioning erobics/Weight Training	troduction to Kinesiology2eginning Volleyball1wimming for Fitness1eginning Swimming1/ater Exercise1feguard Training2eginning Tennis1ocial Dance1azz 11allet1adminton1eginning Yoga1rev/Care Athletic Injuries2termediate Yoga1/ellness Today2ealth & Fitness for Life1ueprint for Healthy Living2cycle Conditioning1erobics/Weight Training1

communication, and interdisciplinary humanities. A maximum of three credits of studio/hands-on courses in art, creative writing, drama, and music may be applied.



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Art Courses Studie // los	da an		
Art Courses - Studio/Han		2	0.6
ART 20815202	Color & Design	3	0-6
ART 20815203	3-Dimensional Design	3	0-6
ART 20815205	Drawing Fundamentals - Liberal Arts Transfer	3	0-6
ART 20815208	Contemporary Art Survey	3	0-6
ART 20815214	Modern Art Survey	3	0-6
ART 20815215	Drawing 2	3	0-6
ART 20815218	Independent Projects in Studio Art	3	0-6
ART 20815219	Life Drawing 1	3	0-6
ART 20815220	Life Drawing 2	3	0-6
ART 20815221	Life Drawing 3	3	0-6
ART 20815232	Digital Design Fundamentals	3	0-6
ART 20815234	Photography - Liberal Arts Transfer	3	0-6
ART 20815235	Creative Photography	3	0-6
ART 20815236	Advanced Creative Photography	3	0-6
ART 20815239	Digital Photography	3	0-6
ART 20815241	Painting 1 - Liberal Arts Transfer	3	0-6
ART 20815242	Painting 2	3	0-6
ART 20815253	Jewelry 1	3	0-6
ART 20815254	Jewelry 2 - Liberal Arts Transfer	3	0-6
ART 20815256	Art Metal Welding	3	0-6
ART 20815290	Ceramics 1 - Liberal Arts Transfer	3	0-6
ART 20815290	Ceramics 2 - Liberal Arts Transfer	3	0-6
ART 20815292	Watercolor 1	3	0-6
ART 20815294	Ceramics Sculpture 1	3	0-6
ART 20815295	Ceramics Sculpture 2	3	0-6
ART 20815296	Ceramics Firing Techniques/Alternative Methods	3	0-6
ART 20815297	Watercolor 2	3	0-6
Art Courses - non Studio/		•	
ART 20815200	Art History: Ancient to Medieval	3	3-0
ART 20815210	Art History: Renaissance to Modern	3	3-0
ART 20815211	Art History: Women In Art	3	3-0
Writing and Communicati			
JOURNAL 20801251	Introduction to Mass Communication	4	4-0
COMM 20810205	Small Group & Interpersonal Communications	3	3-0
ENGLISH 20801240	Creative Writing	3	3-0
ENGLISH 20801241	Creative Writing/Fiction	3	3-0
ENGLISH 20801242	Creative Writing/Drama	3	3-0
ENGLISH 20801243	Creative Writing/Poetry	3	3-0
ENGLISH 20801244	Creative Writing/Non Fiction	3	3-0
JOURNAL 20801245	Introduction to Journalism	3	3-0
JOURNAL 20801246	Investigative Journalism	3	3-0
ENGLISH 20801249	Film Writing	3	3-0
JOURNAL 20801252	World Issues Journalism	3	3-0
JOURNAL 20801253	Documentary Storytelling	3	2-2
JOURNAL 20801262	Social Media Writing	3	3-0
JOURNAL 20801271	Journalism Practicum 1	2	2-0
JOURNAL 20801272	Journalism Practicum 2	2	2-0
JOURNAL 20801273	Journalism Practicum 3	2	2-0
JOURNAL 20801274	Journalism Practicum 4	2	2-0
Drama Courses - Studio/I			
DRAMA 20810235	Stagecraft 1	3	3-0
DRAMA 20810236	Stagecraft 2	3	3-0
DRAMA 20810260	Drama Practicum	2	2-0
DRAMA 20810262	Acting 1	3	3-0
DRAMA 20810202 DRAMA 20810263	Acting 2	3	3-0
DRAMA 20810203 DRAMA 20810270	Movement Theory & Training for Actors	3 1	0-2
Drama Courses - non Stu		I	0-2
Drama Courses - non Stu DRAMA 20810230	Intro To Theatre	2	3-0
		3	
DRAMA 20810238	Cultural Diversity in Contemporary American Theater	3	3-0



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Film Courses32-2FILM 20810250Introduction to Film32-2FILM 20810254History Of World Cinema32-2Literature CoursesIntroduction to Literature33-0	
FILM 20810254History Of World Cinema32-2Literature CoursesENGLISH 20801204Introduction to Literature33-0	
Literature Courses ENGLISH 20801204 Introduction to Literature 3 3-0	
ENGLISH 20801204Introduction to Literature33-0	
ENGLISH 20801207 World Indigenous Literatures 3 3-0	
ENGLISH 20801207World Indigenous Literatures33-0ENGLISH 20801211Gay & Lesbian Literature33-0	
ENGLISH 20801212 Ethnic Literature 3 3-0	
ENGLISH 20801213 Native American Literature 3 3-0	
ENGLISH 20801214 African American Literature 3 3-0	
ENGLISH 20801215 British Literature 1 3 3-0	
ENGLISH 20801216 British Literature 2 3 3-0	
ENGLISH 20801217 American Literature 1 3 3-0	
ENGLISH 20801218 American Literature 2 3 3-0	
ENGLISH 20801219 Western World Lit: Classical Antiquity to the Middle Ages 3 3-0	
ENGLISH 20801220 Western World Lit: Early Renaissance to Present 3 3-0	
ENGLISH 20801221 Literature and Popular Culture 3 3-0	
ENGLISH 20801222 U.S. Latino Literature 3 3-0	
ENGLISH 20801223 Peace, Conflict, and Literature: The Arts of the Contact 3 3-0	
Zone ENGLISH 20801226 Introduction to African Literature 3 3-0	
ENGLISH 20801227 Children's Literature 3 3-0	
ENGLISH 20801229 Contemporary Lit 3 3-0	
ENGLISH 20801230 Classical Mythology 3 3-0	
ENGLISH 20801231 19th c. Russian Literature in Translation 3 3-0	
ENGLISH 20801232 20th c. Russian Literature in Translation 3 3-0 ENGLISH 20801232 Witcome in Literature in Translation 3 3-0	
ENGLISH 20801250 Women In Literature 3 3-0	
LITTRANS 20802250 Literature in Translation 3 3-0	
Music Courses - Studio/Hands-on	
MUSIC 20805205 Class Voice 1 1 1-0	
MUSIC 20805206 Class Voice 2 1 1-0	
MUSIC 20805209 Swing Choir 2 2-0	
MUSIC 20805211 Orchestra 1 1 0-2	
MUSIC 20805212 Orchestra 2 1 0-2	
MUSIC 20805216 Concert Band 1 1 0-2	
MUSIC 20805217 Concert Band 2 1 0-2	
MUSIC 20805219 Jazz Ensemble 1 1 0-2	
MUSIC 20805220 Jazz Ensemble 2 1 0-2	
MUSIC 20805221 Class Piano 1 1 0-2	
MUSIC 20805222 Class Piano 2 1 0-2	
MUSIC 20805270 Madison College Chorale 1 0-2	
MUSIC 20805271 Madison College Chorale 2 1 0-2	
MUSIC 20805272 Madrigal Choir 1 0-2	
MUSIC 20805279 World Drumming Ensemble 1 1 0-2	
MUSIC 20805280 World Drumming Ensemble 2 1 0-2	
MUSIC 20805281 World Drumming Ensemble 3 1 0-2	
MUSIC 20805282 World Drumming Ensemble 4 1 0-2	
Music Courses - non Studio/Hands-on	
MUSIC 20805207 World Music 3 3-0	
MUSIC 20805227 Music Appreciation 3 3-0	
MUSIC 20805260 Music Theory Fundamentals 3 3-0	
MUSIC 20805261 Music Theory 1 3 3-0	
MUSIC 20805262 Music Theory 2 3 3-0	
MUSIC 20805263 Jazz History 3 3-0	
MUSIC 20805267 Aural Skills 1 1 0-2	
MUSIC 20805268 Aural Skills 2 1 0-2	
MUSIC 20805278 Hist Pop/Rock Music 3 3-0	
Philosophy Courses	
PHILOS 20809258 Philosophy Through Film 3 3-0	
PHILOS 20809259 Classics in Philosophy 3 3-0	



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PHILOS 20809260	Intro Philosophy	3	3-0
PHILOS 20809261	Elementary Logic	4	4-0
PHILOS 20809262	Contemporary Moral Issues	3	3-0
PHILOS 20809263	East/West World View - Liberal Arts Transfer	3	3-0
PHILOS 20809264	Introduction to Logic and Critical Thinking	3	3-0
PHILOS 20809266	Ethics In Medicine	3	3-0
PHILOS 20809268	Social Ethics	3	3-0
PHILOS 20809276	Business Ethics	3	3-0
World Languages Courses		0	00
SPANISH 20802211	Spanish 1	4	3-2
SPANISH 20802211 SPANISH 20802212	Spanish 2	4	3-2
	•	4	-
SPANISH 20802213	Spanish 3		3-2
SPANISH 20802214	Spanish 4	4	3-2
SPANISH 20802215	Spanish 5	3	3-0
SPANISH 20802217	Spanish for Heritage Speakers	4	3-2
FRENCH 20802221	French 1	4	3-2
FRENCH 20802222	French 2	4	3-2
FRENCH 20802223	French 3	4	3-2
FRENCH 20802224	French 4	4	3-2
CHINESE 20802230	Introduction to Mandarin Chinese	3	2-2
CHINESE 20802231	Introduction to Mandarin Chinese 2	3	2-2
ARABIC 20802240	Intro to Modern Arabic 1	3	2-2
ARABIC 20802241	Intro to Modern Arabic 2	3	2-2
Interdisciplinary Humanitie	es Courses		
LDRSHP 20810267	Leadership As An Art	3	3-0
Mathematics and Natura			
	st include a laboratory. The remaining credits to fulfill the requirement listed mathematics and natural science courses.	ent can	
MATH 20804201	Intermediate Algebra	4	3-2
MATH 20804202	Intermediate Algebra I	3	2-2
MATH 20804203	Intermediate Algebra 2	3	2-2
MATH 20804208	Computer Science	4	3-2
MATH 20804210	Math for Elementary Teachers	3	3-0
MATH 20804211	Quantitative Reasoning	3	2-2
MATH 20804212	College Algebra	3	2-2
MATH 20804213	Trigonometry	3	2-2
MATH 20804213 MATH 20804214	Math for Elementary Teachers 2	3	3-0
MATH 20804220	Finite Math	3	2-2
MATH 20804220 MATH 20804221	Calculus Methods for Business and Social Sciences I	5	5-0
MATH 20804221 MATH 20804223	Calculus Methods for Business and Social Sciences I	3	2-2
MATH 20804223 MATH 20804228	Calculus w Algebra & Trigonometry 1	5	
MATH 20804228 MATH 20804229	Math Analysis	5	5-0 5-0
	Calculus w Algebra & Trigonometry II	5	5-0 5-0
MATH 20804230 MATH 20804231	Calculus and Analytic Geometry 1	5 5	5-0 5-0
MATH 20804231 MATH 20804232		5 5	5-0 5-0
	Calculus and Analytic Geometry 2		
MATH 20804233	Calculus 3	5	5-0 3-2
MATH 20804240	Pagia Statistica		
	Basic Statistics	4	
MATH 20804241	Introduction to Engineering Statistics	3	1-4
MATH 20804255	Introduction to Engineering Statistics Techniques in Ordinary Differential Equations	3 3	1-4 1-4
MATH 20804255 MATH 20804256	Introduction to Engineering Statistics Techniques in Ordinary Differential Equations Elementary Matrix and Linear Algebra	3 3 3	1-4 1-4 1-4
MATH 20804255 MATH 20804256 MATH 20804265	Introduction to Engineering Statistics Techniques in Ordinary Differential Equations Elementary Matrix and Linear Algebra Introduction to Discrete Mathematics	3 3	1-4 1-4
MATH 20804255 MATH 20804256 MATH 20804265 Mathematics Elective Cou	Introduction to Engineering Statistics Techniques in Ordinary Differential Equations Elementary Matrix and Linear Algebra Introduction to Discrete Mathematics <i>rses</i>	3 3 3 3	1-4 1-4 2-2
MATH 20804255 MATH 20804256 MATH 20804265 <i>Mathematics Elective Cou</i> MATH 10804134	Introduction to Engineering Statistics Techniques in Ordinary Differential Equations Elementary Matrix and Linear Algebra Introduction to Discrete Mathematics rses Mathematical Reasoning	3 3 3 3 3	1-4 1-4 2-2 2-2
MATH 20804255 MATH 20804256 MATH 20804265 <i>Mathematics Elective Cou</i> MATH 10804134 MATH 20804200	Introduction to Engineering Statistics Techniques in Ordinary Differential Equations Elementary Matrix and Linear Algebra Introduction to Discrete Mathematics rses Mathematical Reasoning Principles Of Geometry	3 3 3 3	1-4 1-4 2-2
MATH 20804255 MATH 20804256 MATH 20804265 <i>Mathematics Elective Cou</i> MATH 10804134	Introduction to Engineering Statistics Techniques in Ordinary Differential Equations Elementary Matrix and Linear Algebra Introduction to Discrete Mathematics rses Mathematical Reasoning Principles Of Geometry	3 3 3 3 3	1-4 1-4 2-2 2-2



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BIOLOGY 20806206	General Anatomy and Physiology	4	3-2	
BIOLOGY 20806207	Anatomy and Physiology 1	4	3-2	
BIOLOGY 20806208	Anatomy and Physiology 2	4	3-2	
BIOLOGY 20806215	Botany	5	3-4	
BIOLOGY 20806226	Introduction To Human Biology	5	4-2	
BIOLOGY 20806262	Anatomy and Physiology for Exercise Lab	1	0-2	
BIOLOGY 20806271	Cellular and Molecular Biology	5	3-4	
BIOLOGY 20806272	Organismal Biology	5	3-4	
BIOLOGY 20806273	Microbiology-University Medical	5	3-4	
BIOLOGY 20806274	General Microbiology	5	3-4	
BIOLOGY 20806286	Environmental Science	4	2-4	
Biology Courses - without	Lab			
BIOLOGY 20806204	Biological Greek and Latin Terminology	3	3-0	
BIOLOGY 20806280	Environmental Issues	3	3-0	
BIOLOGY 20806281	Ecology/Conservation Biology	3	3-0	
Chemistry Courses - with I		-		
CHEM 20806200	Liberal Arts Chemistry	5	3-4	
CHEM 20806201	General, Organic & Biological Chemistry	5	4-2	
CHEM 20806209	College Chemistry 1	5	3-4	
CHEM 20806203	College Chemistry 2	5	3-4	
CHEM 20806212 CHEM 20806213	Organic Chemistry 1	5	3-4 3-4	
CHEM 20806213 CHEM 20806214	Organic Chemistry 2	5	3-4	
CHEM 20806214 CHEM 20806216	Chemistry for Biotechnology	3	2-2	
		3	2-2	
Physical Science Courses PHYSICS 20806221		F	3-4	
	University Physics 1	5 5	-	
PHYSICS 20806222	University Physics 2		3-4	
PHYSICS 20806223	University Physics 1-Calculus-Based	5	2-6	
PHYSICS 20806224	University Physics 2-Calculus Based	5	2-6	
EARTHSCI 20806244	General Geology	4	3-2	
EARTHSCI 20806247	Earth Science Lab	1	0-2	
EARTHSCI 20806248	Weather and Climate Laboratory	1	0-2	
ASTRON 20806253	Astronomy: The Solar System	4	3-2	
ASTRON 20806254	Astronomy: Stars & Galaxies	4	3-2	
Physical Science Courses				
PHYSICS 20806220	Physics of Everyday Life	3	3-0	
PHYSICS 20806232	Statics	3	2-2	
EARTHSCI 20806241	Earth Science	3	3-0	
EARTHSCI 20806245	Weather And Climate	3	3-0	
EARTHSCI 20806246	Survey of Oceanography	3	3-0	
EARTHSCI 20806249	Geologic Evolution of the Earth	4	3-2	
EARTHSCI 20806250	Climate and Climate Change	3	3-0	
EARTHSCI 20806252	Natural Hazards	3	3-0	
PHYSICS 20806291	Introduction to Renewable Energy	3	3-0	
Social Science (15 credit	s)			
	n at least three disciplines is required. Choose courses from the	he following		
disciplines: anthropology, e	economics, history, political science, psychology, sociology, ar	nd		
interdisciplinary social scie	ence.			
Anthropology Courses				
ANTHRO 20809279	Introduction to the Archaeology of Native North America	3	3-0	
ANTHRO 20809280	General Anthropology	3	3-0	
ANTHRO 20809281	Archaeology & Prehistoric World	3	3-0	
ANTHRO 20809283	Cultural Anthropology & Human Diversity	3	3-0	
ANTHRO 20809285	Anthropology of Myth, Magic, and Religion	3	3-0	
ANTHRO 20809286	The Anthropology of Globalization & Multiculturalism	3	3-0	
ANTHRO 20809287	Anthropology of Islamic Societies and Cultures	3	3-0	
ANTHRO 20809288	Human Biology & Physical Anthropology	3	3-0	
ANTHRO 20809289	World Regional Geography	3	3-0	
ANTHRO 20809292	Agriculture, Food, and Society	3	3-0	
Economics Courses		5	~ ~	



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50000000000			
ECON 20809211	Macro Economics	3	3-0
ECON 20809212	Micro Economics	3	3-0
ECON 20809214	Intro International Econ	3	3-0
ECON 20809228	Environmental Economics	3	3-0
ECON 20809269	Energy And Society	3	3-0
Economics Elective Cours			
ECON 10809195	Economics	3	3-0
History Courses			
HISTORY 20803204	Renaissance, Reformation, and Revolution	3	3-0
HISTORY 20803205	Europe and Modern World	3	3-0
HISTORY 20803211	Am Hist 1607-1865	3	3-0
HISTORY 20803212	Am Hist 1865-Pres.	3	3-0
HISTORY 20803214	Native American History - Liberal Arts Transfer	3	3-0
HISTORY 20803215	American History Since 1945	3	3-0
HISTORY 20803220	History Of West Civilization 1	3	3-0
HISTORY 20803224	History of Sub Saharan Africa	3	3-0
HISTORY 20803225	World In 20th Century	3	3-0
HISTORY 20803229	Vietnam/American-1945-Present	3	3-0
HISTORY 20803230	Public Man, Private Woman: Bronze Age to Glass Ceiling	3	3-0
HISTORY 20803233	Gender and Women's History in Cultural Representations	3	3-0
HISTORY 20803234	Gender and Women's Global History	3	3-0
HISTORY 20803240	Afro-American History	3	3-0
Political Science Courses		3	5-0
POLISCI 20809218	Law and Society	3	3-0
POLISCI 20809220	American Foreign Policy	3	3-0
	American Ntl Govt	3	
POLISCI 20809221			3-0
POLISCI 20809222	State and Local Government	3	3-0
POLISCI 20809223	International Relations	3	3-0
POLISCI 20809227	Political Theory	3	3-0
POLISCI 20809242	Public Policy	3	3-0
POLISCI 20809243	Comparative Politics	3	3-0
POLISCI 20809244	Russian Politics	3	3-0
POLISCI 20809245	Latin American Politics	3	3-0
POLISCI 20809246	African Politics	3	3-0
POLISCI 20809247	East Asian Politics	3	3-0
POLISCI 20809248	Politics of India	3	3-0
POLISCI 20809254	Political Science Research Methods	3	3-0
Psychology Courses			
PSYCH 20809201	Human Sexuality	3	3-0
PSYCH 20809225	Social Psychology	3	3-0
PSYCH 20809231	Intro Psychology	3	3-0
PSYCH 20809233	Developmental Psychology	3	3-0
PSYCH 20809237	Abnormal Psych	3	3-0
PSYCH 20809239	Child Human Development	3	3-0
PSYCH 20809249	Educational Psychology	3	3-0
Sociology Courses		-	
SOC 20809202	Social Problems	3	3-0
SOC 20809203	Intro Sociology	3	3-0
SOC 20809204	Marriage and the Family	3	3-0
SOC 20809207	Criminology	3	3-0
SOC 20809229	Social Movements	3	3-0
SOC 20809229 SOC 20809230	Statistics for the Social Sciences	3 4	3-0 4-0
SOC 20809230 SOC 20809240			
	Introduction to Latin America	3	3-0
SOC 20809251	Sociology of the Middle East and North Africa	3	3-0
SOC 20809252	Race and Ethnicity in the U.S.	3	3-0
SOC 20809253	Sociology of Gender	3	3-0
SOC 20809275	Sociology of Religion	3	3-0
SOC 20809277	Couple Relationships	1	1-0
SOC 20809291	Technology and Society	3	3-0
Interdisciplinary Social Sci	ence Courses		



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SOCSCI 20809206	Introduction to Women's Studies	3	3-0
SOCSCI 20809210	Psychology of Men	3	3-0
SOCSCI 20809234	Psychology of Women	3	3-0
00000120003204	r sychology of Women	5	50
Electives (13 credits)			
	courses beyond the minimum requirements. A maximum of one cr	edit of a	
physical education activ	ity course may be selected.		
Ethnic Studies (One co	ourse)		
	toward Humanities/Fine Arts, Social Science, or Electives.		
ENGLISH 20801207	World Indigenous Literatures	3	3-0
ENGLISH 20801212	Ethnic Literature	3	3-0
ENGLISH 20801213	Native American Literature	3	3-0
ENGLISH 20801214	African American Literature	3	3-0
ENGLISH 20801222	U.S. Latino Literature	3	3-0
HISTORY 20803214	Native American History - Liberal Arts Transfer	3	3-0
HISTORY 20803240	Afro-American History	3	3-0
SOC 20809252	Race and Ethnicity in the U.S.	3	3-0
ANTHRO 20809283	Cultural Anthropology & Human Diversity	3	3-0
ANTHRO 20809286	The Anthropology of Globalization & Multiculturalism	3	3-0
ANTIKO 20009200	The Anthropology of Globalization & Muticulturalism	5	5-0
Literature (One course			
	unt toward fulfilling the Humanities and Fine Arts or Electives req		• •
ENGLISH 20801204	Introduction to Literature	3	3-0
ENGLISH 20801207	World Indigenous Literatures	3	3-0
ENGLISH 20801211	Gay & Lesbian Literature	3	3-0
ENGLISH 20801212	Ethnic Literature	3	3-0
ENGLISH 20801213	Native American Literature	3	3-0
ENGLISH 20801214	African American Literature	3	3-0
ENGLISH 20801215	British Literature 1	3	3-0
ENGLISH 20801216	British Literature 2	3	3-0
ENGLISH 20801217	American Literature 1	3	3-0
ENGLISH 20801218	American Literature 2	3	3-0
ENGLISH 20801219	Western World Lit: Classical Antiquity to the Middle Ages	3	3-0
ENGLISH 20801220	Western World Lit: Early Renaissance to Present	3	3-0
ENGLISH 20801221	Literature and Popular Culture	3	3-0
ENGLISH 20801222	U.S. Latino Literature	3	3-0
ENGLISH 20801223	Peace, Conflict, and Literature: The Arts of the Contact	3	3-0
	Zone	-	
ENGLISH 20801226	Introduction to African Literature	3	3-0
ENGLISH 20801227	Children's Literature	3	3-0
ENGLISH 20801229	Contemporary Lit	3	3-0
ENGLISH 20801230	Classical Mythology	3	3-0
ENGLISH 20801231	19th c. Russian Literature in Translation	3	3-0
ENGLISH 20801232	20th c. Russian Literature in Translation	3	3-0
ENGLISH 20801250	Women In Literature	3	3-0
LITTRANS 20802250	Literature in Translation	3	3-0
Would Longue (Or			
World Languages (One	e course) ar in high school with a grade of "C" or better OR one semester ir		
	o count toward Humanities/Fine Arts or Electives.	i college.	
SPANISH 20802211	Spanish 1	4	3-2
SPANISH 20802211 SPANISH 20802212	Spanish 2	4	3-2
SPANISH 20802212 SPANISH 20802213	Spanish 2 Spanish 3	4	3-2
SPANISH 20802213 SPANISH 20802214	Spanish 3 Spanish 4	4	3-2
SPANISH 20802214 SPANISH 20802215	Spanish 5	4	3-2 3-0
FRENCH 20802221	French 1	4	3-2
FRENCH 20802222	French 2	4	3-2
FRENCH 20802223	French 3	4	3-2
FRENCH 20802224	French 4	4	3-2
CHINESE 20802230	Introduction to Mandarin Chinese	3	2-2



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CHINESE 20802231	Introduction to Mandarin Chinese 2	3	2-2	
ARABIC 20802240	Intro to Modern Arabic 1	3	2-2	
ARABIC 20802241	Intro to Modern Arabic 2	3	2-2	



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Real world smart.

Liberal Arts Transfer

Program Number: 208001-E

Associate in Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

Credits/Units LEC-LAB English and Speech (9 credits) Six credits must be in composition - English 1 and English 2 - and three credits must be in public speaking. Health/Wellness/Physical Education (1 credit) Humanities/Fine Arts (9 credits) Courses must be from at least two disciplines; one course in literature is required. Select from at appreciation/history, creative writing, drama, lim, literature, communications, music history or theory, philosophy, and world languages. A maximum of three credits of studio/hands-on courses in art, creative writing, drama, and music may be applied. Mathematics and Natural Science (25 credits) 5 5-0 MATH 20804231 Calculus and Analytic Geometry 1 5 5-0 CHEM 20806202 College Chemistry 1 5 3-4 PHYSICS 208062233 University Physics 1-Calculus-Based 5 2-6 Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinery scolal science. Requirement is set up for one depth and one breadth course each in a single discipline. PHYSICS 208062234 University Physics 2-Calculus Based 5 5-0 PHYSICS 208062524 University Physics 2-Calculus Based 5 2-2 MATH 20804233 Calculus 3 1-4				Hrs/Week
Six arcelits must be in composition - English 1 and English 2 - and three credits must be in public speaking. Health/Wellness/Physical Education (1 credit) Humanities/Fine Arts (9 credits) Courses must be from at least two disciplines; one course in literature is required. Select from at appreciation/history, creative writing, drama, film, literature, communications, music history or theory, philosophy, and world languages. A maximum of three credits of studio/hands-on courses in at, creative writing, drama, and music may be applied. Mathematics and Natural Science (25 credits) MATH 20804231 Calculus and Analytic Geometry 1 5 5-0 MATH 20804231 Calculus and Analytic Geometry 2 5 3-4 CHEM 20806209 College Chemistry 2 5 3-4 PHYSICS 20806223 University Physics 1-Calculus-Based 5 2-6 Social Science (6 credits) Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline. 5 5-0 PHYSICS 20806224 University Physics 2-Calculus Based 5 2-6 PHYSICS 20806224 University Physics 2-Calculus Based 5 5-0 PHYSICS 20806224 University Physics 2-Calculus Based 5 2-6			Credits/Units	LEC-LAB
Humanities/Fine Arts (9 credits) Courses must be from at least two disciplines; one course in literature is required. Select from art appreciation/history, creative writing, drama, film, literature, communications, music history or theory, philosophy, and world languages. A maximum of three credits of studio/hands-on courses in art, creative writing, drama, and music may be applied. Mathematics and Natural Science (25 credits) MATH 20804231 Calculus and Analytic Geometry 1 5 5-0 MATH 20804232 Calculus and Analytic Geometry 2 5 5-0 CHEM 20806209 College Chemistry 1 5 3-4 CHEM 20806212 College Chemistry 2 5 3-4 PHYSICS 20806223 University Physics 1-Calculus-Based 5 2-6 Social Science (6 credits) Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline. 5 5-0 PHYSICS 20806224 Introduction to Engineering 3 2-2 MATH 20804233 Calculus 3 5 5-0 PHYSICS 20806224 Introduction to Computer Engineering 3 1-4 ELECT 20605252 Introduction to Computer Engineering 3 1-4	Six credits must be in co		ust be in public	
Courses must be from at least two disciplines; one course in literature is required. Select from at appreciation/history, creative writing, drama, film, literature, communications, music history or theory, hilosophy, and world languages. A maximum of three credits of studio/hands-on courses in art, creative writing, drama, and music may be applied. Mathematics and Natural Science (25 credits) 5 MATH 20804231 Calculus and Analytic Geometry 1 5 MATH 20806209 College Chemistry 1 5 3-4 CHEM 20806212 College Chemistry 1 5 3-4 PHYSICS 20806223 University Physics 1-Calculus-Based 5 2-6 Social Science (6 credits) Science. Requirement is set up for one depth and one breadth course each in a single discipline. 5 5-0 PMATH 20804233 Calculus 3 2-2 5 3-4 Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline. 5 5-0 PHYSICS 20806224 University Physics 2-Calculus Based 5 2-6 Elect 20605270 AC/DC Circuit Techniques and Principles 3 1-4 ELECT 20605271 Introductory Engineering Graphics 3 2-2	Health/Wellness/Physic	cal Education (1 credit)		
MATH 20804231Calculus and Analytic Geometry 155-0MATH 20804232Calculus and Analytic Geometry 255-0CHEM 20806209College Chemistry 153-4CHEM 20806212College Chemistry 253-4PHYSICS 20806223University Physics 1-Calculus-Based52-6Social Science (6 credits)Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline.Engineering-Related Courses (14 credits)Introduction to EngineeringNDMANUF 20623260Introduction to EngineeringNTMANUF 20623260University Physics 2-Calculus Based5PHYSICS 20806224University Physics 2-Calculus Based5ELECT 20605252Introduction to Computer Engineering31-4ELECT 20605250AC/DC Circuit Techniques and Principles31-4MATH 20804255Techniques in Ordinary Differential Equations3MATH 20804256Introduction to Discrete Mathematics32-2MATH 20804256Introduction to Engineering Statistics31-4MATH 20804256Introduction to Engineering Statistics31-4MATH 20804256Introduction to Discrete Mathematics32-2MATH 20804265Introduction to Engineering Statistics31-4MATH 20804265Introductory Zoology54-2	Courses must be from at appreciation/history, creat philosophy, and world land	t least two disciplines; one course in literature is required. ative writing, drama, film, literature, communications, mus nguages. A maximum of three credits of studio/hands-on	sic history or theory,	
MATH 20804232Calculus and Analytic Geometry 255-0CHEM 20806209College Chemistry 153-4CHEM 20806212College Chemistry 253-4PHYSICS 20806223University Physics 1-Calculus-Based52-6Social Science (6 credits)Social Science (6 credits)Social science, Requirement is set up for one depth and one breadthcourse each in a single discipline:Fengineering-Related Courses (14 credits)Introduction to Engineering32-2MATH 20804233Calculus 355-0PHYSICS 20806224University Physics 2-Calculus Based52-6ELECT 20605252Introduction to Computer Engineering31-4MECTEC 20606231Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804256Introduction to Engineering Statistics31-4MATH 20804256Introduction to Engineering Statistics31-4MATH 20804265Introduction to Engineering Statistics31-4MATH 20804265Introductory Zoology54-2MATH 20804265Introductory Zoology54-2MATH 20804264Organic Chemistry 153-4BIOLOGY 20806214Organic Chemistry 253-4BIOLOG	Mathematics and Natur	al Science (25 credits)		
CHEM 20806209College Chemistry 153-4CHEM 20806212College Chemistry 253-4PHYSICS 20806223University Physics 1-Calculus-Based52-6Social Science (6 credits)Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline.Engineering-Related Courses (14 credits)INDMANUF 20623260Introduction to Engineering32-2MATH 20804233Calculus 355-0PHYSICS 20806224University Physics 2-Calculus Based52-6ELECT 20605252Introduction to Computer Engineering31-4ELECT 20605252Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Introduction to Discrete Mathematics32-2MATH 20804256Introduction to Engineering Statistics31-4MATH 20804256Introductory Zoology54-2MATH 20804241Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4BIOLOGY 20806214Organic Chemistry 253-4BIOLOGY 20806274General Geology43-2BIOLOGY 20806274General Microbiology53-4	MATH 20804231	Calculus and Analytic Geometry 1	5	5-0
CHEM 20806212 PHYSICS 20806223College Chemistry 2 University Physics 1-Calculus-Based53-4Social Science (6 credits)Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline.Engineering-Related Courses (14 credits)INDMANUF 20623260Introduction to Engineering32-2MATH 20804233Calculus 355-0PHYSICS 20806224University Physics 2-Calculus Based52-6ELECT 20605252Introduction to Computer Engineering31-4MECTEC 20606231Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804265Introduction to Engineering Graphics31-4MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804265Introductory Zoology54-2MATH 20804214Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4BIOLOGY 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	MATH 20804232	Calculus and Analytic Geometry 2	5	5-0
PHYSICS 20806223University Physics 1-Calculus-Based52-6Social Science (6 credits)Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline.Engineering-Related Courses (14 credits)INDMANUF 20623260Introduction to Engineering32-2MATH 20804233Calculus 355-0PHYSICS 20806224University Physics 2-Calculus Based52-6ELECT 20605252Introduction to Computer Engineering31-4ELECT 20605270AC/DC Circuit Techniques and Principles31-4MECTEC 20606231Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804255Introduction to Engineering Statistics32-2MATH 20804261Introduction to Engineering Statistics31-4MATH 20804265Introductory Zoology54-2MATH 20806213Organic Chemistry 153-4BIOLOGY 20806214Organic Chemistry 253-4ENTROLOGY 20806214General Geology43-2BIOLOGY 20806274General Microbiology53-4	CHEM 20806209	College Chemistry 1	5	3-4
Social Science (6 credits)Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline.Engineering-Related Courses (14 credits)INDMANUF 20623260Introduction to EngineeringNDMANUF 20623260Introduction to EngineeringAATH 20804233Calculus 3Calculus 35Colose224University Physics 2-Calculus BasedELECT 20605252Introduction to Computer EngineeringSocial ScienceAC/DC Circuit Techniques and PrinciplesAELECT 20606231Introductory Engineering GraphicsMATH 20804255Techniques in Ordinary Differential EquationsAATH 20804256Elementary Matrix and Linear AlgebraAATH 20804256Introduction to Discrete MathematicsAATH 20804265Introduction to Engineering StatisticsBIOLOGY 20806203Introductory ZoologyCHEM 20806214Organic Chemistry 1Social Cology 20806214Organic Chemistry 2BIOLOGY 20806214General MicrobiologySocial Cology 20806274General MicrobiologySocial Cology 20806274General MicrobiologySocial Science4Social Cology 20806274General MicrobiologySocial Cology 20806274General MicrobiologySocial Cology 20806274General MicrobiologySocial Cology 20806274Social CologySocial Cology 20806274Social CologySocial Cology 20806274Social Cology <td>CHEM 20806212</td> <td>College Chemistry 2</td> <td>5</td> <td>3-4</td>	CHEM 20806212	College Chemistry 2	5	3-4
Select from at least two disciplines: anthropology, economics, history, political science, psychology, sociology, and interdisciplinary social science. Requirement is set up for one depth and one breadth course each in a single discipline.Engineering-Related Courses (14 credits)INDMANUF 20623260Introduction to Engineering32-2MATH 20804233Calculus 355-0PHYSICS 20806224University Physics 2-Calculus Based52-6ELECT 20605252Introduction to Computer Engineering31-4ELECT 20605270AC/DC Circuit Techniques and Principles31-4MECTEC 20606231Introductory Engineering Graphics31-4MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804265Introduction to Engineering Statistics32-2MATH 20804265Introductory Zoology54-2MATH 20804211Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	PHYSICS 20806223	University Physics 1-Calculus-Based	5	2-6
INDMANUF 20623260Introduction to Engineering32-2MATH 20804233Calculus 355-0PHYSICS 20806224University Physics 2-Calculus Based52-6ELECT 20605252Introduction to Computer Engineering31-4ELECT 20605270AC/DC Circuit Techniques and Principles31-4MECTEC 20606231Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804265Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806214Organic Chemistry 153-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	course each in a single c	discipline.	n and one breadin	
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ELECT 20605252Introduction to Computer Engineering31-4ELECT 20605270AC/DC Circuit Techniques and Principles31-4MECTEC 20606231Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804208Computer Science43-2MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	MATH 20804233	Calculus 3	5	5-0
ELECT 20605270AC/DC Circuit Techniques and Principles31-4MECTEC 20606231Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804208Computer Science43-2MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	PHYSICS 20806224	University Physics 2-Calculus Based	5	2-6
MECTEC 20606231Introductory Engineering Graphics32-2MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804208Computer Science43-2MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	ELECT 20605252	Introduction to Computer Engineering	3	1-4
MATH 20804255Techniques in Ordinary Differential Equations31-4MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804208Computer Science43-2MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	ELECT 20605270	AC/DC Circuit Techniques and Principles	3	1-4
MATH 20804256Elementary Matrix and Linear Algebra31-4MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804208Computer Science43-2MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	MECTEC 20606231	Introductory Engineering Graphics	3	2-2
MATH 20804265Introduction to Discrete Mathematics32-2MATH 20804208Computer Science43-2MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	MATH 20804255	Techniques in Ordinary Differential Equations	3	1-4
MATH 20804208Computer Science43-2MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	MATH 20804256	Elementary Matrix and Linear Algebra	3	1-4
MATH 20804241Introduction to Engineering Statistics31-4BIOLOGY 20806203Introductory Zoology54-2CHEM 20806213Organic Chemistry 153-4CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	MATH 20804265	Introduction to Discrete Mathematics	3	2-2
BIOLOGY 20806203 Introductory Zoology 5 4-2 CHEM 20806213 Organic Chemistry 1 5 3-4 CHEM 20806214 Organic Chemistry 2 5 3-4 EARTHSCI 20806244 General Geology 4 3-2 BIOLOGY 20806274 General Microbiology 5 3-4	MATH 20804208	Computer Science	4	3-2
CHEM 20806213 Organic Chemistry 1 5 3-4 CHEM 20806214 Organic Chemistry 2 5 3-4 EARTHSCI 20806244 General Geology 4 3-2 BIOLOGY 20806274 General Microbiology 5 3-4	MATH 20804241	Introduction to Engineering Statistics	3	1-4
CHEM 20806214Organic Chemistry 253-4EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	BIOLOGY 20806203	Introductory Zoology	5	4-2
EARTHSCI 20806244General Geology43-2BIOLOGY 20806274General Microbiology53-4	CHEM 20806213		5	3-4
BIOLOGY 20806274 General Microbiology 5 3-4	CHEM 20806214	Organic Chemistry 2	5	3-4
6 7	EARTHSCI 20806244	General Geology	4	3-2
PHYSICS 20806232 Statics 3 2-2	BIOLOGY 20806274	General Microbiology	5	3-4
	PHYSICS 20806232	Statics	3	2-2



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Ethnic Studies

One course required. Course may also count toward Humanities/Fine Arts, Social Science, or Electives.

World Languages May be met with one year in high school with a grade of "C" or better OR one semester in college. College course may also count toward Humanities/Fine Arts or Electives.



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Liberal Arts Transfer

Program Number: 208001-S

Associate in Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
English and Speech (9 c			
	nposition - English 1 and one other composition course (English 2	
,	e credits must be in public speaking.		
Composition Courses ENGLISH 20801201	English 1	3	3-0
ENGLISH 20801201	English 2	3	3-0
JOURNAL 20801202	Introduction to Journalism	3	3-0
JOURNAL 20801245	Investigative Journalism	3	3-0
JOURNAL 20801240	Introduction to Mass Communication	4	4-0
Public Speaking Courses		4	4-0
SPEECH 10801198	Speech	3	3-0
JOURNAL 20801269	On-Air Performance	3	2-2
SPEECH 20810202	Theory & Practice of Argumentation and Debate	3	3-0
SPEECH 20810201	Oral Interpretation	3	3-0
		0	00
Health/Wellness/Physica	al Education (1 credit)		
PHYED 20807210	Conditioning/Weight Training	1	0-2
PHYED 20807219	Introduction to Kinesiology	2	2-0
PHYED 20807223	Beginning Volleyball	1	0-2
PHYED 20807229	Swimming for Fitness	1	0-2
PHYED 20807230	Beginning Swimming	1	0-2
PHYED 20807232	Water Exercise	1	0-2
PHYED 20807233	Lifeguard Training	2	1-2
PHYED 20807236	Beginning Tennis	1	0-2
PHYED 20807245	Social Dance	1	0-2
PHYED 20807247	Jazz 1	1	0-2
PHYED 20807248	Ballet	1	0-2
PHYED 20807250	Badminton	1	0-2
PHYED 20807252	Beginning Pilates	1	0-2
PHYED 20807254	Beginning Yoga	1	0-2
PHYED 20807255	Prev/Care Athletic Injuries	2	1-2
PHYED 20807264	Intermediate Yoga	1	0-2
PHYED 20807266	Wellness Today	2	1-2
PHYED 20807267	Health & Fitness for Life	1	0-2
PHYED 20807268	Blueprint for Healthy Living	2	2-0
PHYED 20807271	Bicycle Conditioning	1	0-2
PHYED 20807289	Aerobics/Weight Training	1	0-2
Humanities/Fine Arts (9			
	m at least two disciplines is required. Choose courses fr		
	m, literature, music, philosophy, world languages, writing		
communication, and interd	disciplinary humanities. A maximum of three credits of st	uaio/nanas-on	

courses in art, creative writing, drama, and music may be applied.



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Madison Area Technical College

Art Osuma a Otarlia (11a	a da la su		
Art Courses - Studio/Hai		0	
ART 20815201	Basic Design	3	0-6
ART 20815202	Color & Design	3	0-6
ART 20815203	3-Dimensional Design	3	0-6
ART 20815205	Drawing Fundamentals - Liberal Arts Transfer	3	0-6
ART 20815208	Contemporary Art Survey	3	0-6
ART 20815214	Modern Art Survey	3	0-6
ART 20815215	Drawing 2	3	0-6
ART 20815219	Life Drawing 1	3	0-6
ART 20815220	Life Drawing 2	3	0-6
ART 20815221	Life Drawing 3	3	0-6
ART 20815232	Digital Design Fundamentals	3	0-6
ART 20815234	Photography - Liberal Arts Transfer	3	0-6
	Advanced Creative Photography	3	0-6
ART 20815236			
ART 20815239	Digital Photography	3	0-6
ART 20815241	Painting 1 - Liberal Arts Transfer	3	0-6
ART 20815242	Painting 2	3	0-6
ART 20815253	Jewelry 1	3	0-6
ART 20815254	Jewelry 2 - Liberal Arts Transfer	3	0-6
ART 20815256	Art Metal Welding	3	0-6
ART 20815290	Ceramics 1 - Liberal Arts Transfer	3	0-6
ART 20815291	Ceramics 2 - Liberal Arts Transfer	3	0-6
ART 20815292	Watercolor 1	3	0-6
ART 20815294	Ceramics Sculpture 1	3	0-6
ART 20815295	Ceramics Sculpture 2	3	0-6
ART 20815296	Ceramics Firing Techniques/Alternative Methods	3	0-6
ART 20815297	Watercolor 2	3	0-6
		5	0-0
Art Courses - non Studio		2	2.0
ART 20815200	Art History: Ancient to Medieval	3	3-0
ART 20815210	Art History: Renaissance to Modern	3	3-0
ART 20815211	Art History: Women In Art	3	3-0
Writing and Communicat			
JOURNAL 20801251	Introduction to Mass Communication	4	4-0
COMM 20810205	Small Group & Interpersonal Communications	3	3-0
ENGLISH 20801240	Creative Writing	3	3-0
ENGLISH 20801241	Creative Writing/Fiction	3	3-0
ENGLISH 20801242	Creative Writing/Drama	3	3-0
ENGLISH 20801243	Creative Writing/Poetry	3	3-0
ENGLISH 20801244	Creative Writing/Non Fiction	3	3-0
JOURNAL 20801245	Introduction to Journalism	3	3-0
JOURNAL 20801246	Investigative Journalism	3	3-0
ENGLISH 20801249	Film Writing	3	3-0
JOURNAL 20801252	World Issues Journalism	3	3-0
JOURNAL 20801252	Documentary Storytelling	3	2-2
JOURNAL 20801253 JOURNAL 20801262	Social Media Writing	3	2-2 3-0
	-		
JOURNAL 20801271	Journalism Practicum 1	2	2-0
JOURNAL 20801272	Journalism Practicum 2	2	2-0
JOURNAL 20801273	Journalism Practicum 3	2	2-0
JOURNAL 20801274	Journalism Practicum 4	2	2-0
Drama Courses - non St			
DRAMA 20810235	Stagecraft 1	3	3-0
DRAMA 20810236	Stagecraft 2	3	3-0
DRAMA 20810260	Drama Practicum	2	2-0
DRAMA 20810262	Acting 1	3	3-0
DRAMA 20810263	Acting 2	3	3-0
DRAMA 20810270	Movement Theory & Training for Actors	1	0-2
Drama Courses - non St		•	
DRAMA 20810230	Intro To Theatre	3	3-0
DRAMA 20810238	Cultural Diversity in Contemporary American Theater	3	3-0
Film Courses	Canara Diversity in Contemporary American medier	5	5.0



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FILM 20810250Introduction to Film3FILM 20810254History Of World Cinema3Literature Courses5ENGLISH 20801204Introduction to Literature3ENGLISH 20801207World Indigenous Literatures3ENGLISH 20801211Gay & Lesbian Literature3ENGLISH 20801212Ethnic Literature3ENGLISH 20801213Native American Literature3ENGLISH 20801214African American Literature3ENGLISH 20801215Diciterature3	2-2 2-2 3-0 3-0 3-0 3-0 3-0 3-0 3-0 3-0 3-0 3-0
Literature CoursesIntroduction to Literature3ENGLISH 20801204Introduction to Literature3ENGLISH 20801207World Indigenous Literatures3ENGLISH 20801211Gay & Lesbian Literature3ENGLISH 20801212Ethnic Literature3ENGLISH 20801213Native American Literature3ENGLISH 20801214African American Literature3	3-0 3-0 3-0 3-0 3-0 3-0 3-0 3-0
ENGLISH 20801204Introduction to Literature3ENGLISH 20801207World Indigenous Literatures3ENGLISH 20801211Gay & Lesbian Literature3ENGLISH 20801212Ethnic Literature3ENGLISH 20801213Native American Literature3ENGLISH 20801214African American Literature3	3-0 3-0 3-0 3-0 3-0 3-0 3-0
ENGLISH 20801207World Indigenous Literatures3ENGLISH 20801211Gay & Lesbian Literature3ENGLISH 20801212Ethnic Literature3ENGLISH 20801213Native American Literature3ENGLISH 20801214African American Literature3	3-0 3-0 3-0 3-0 3-0 3-0 3-0
ENGLISH 20801211Gay & Lesbian Literature3ENGLISH 20801212Ethnic Literature3ENGLISH 20801213Native American Literature3ENGLISH 20801214African American Literature3	3-0 3-0 3-0 3-0 3-0 3-0
ENGLISH 20801212Ethnic Literature3ENGLISH 20801213Native American Literature3ENGLISH 20801214African American Literature3	3-0 3-0 3-0 3-0 3-0
ENGLISH 20801213Native American Literature3ENGLISH 20801214African American Literature3	3-0 3-0 3-0 3-0
ENGLISH 20801214 African American Literature 3	3-0 3-0 3-0
	3-0 3-0
ENOLIOU 00004045 Delite Literature 4	3-0
ENGLISH 20801215 British Literature 1 3	
ENGLISH 20801216 British Literature 2 3	3.0
ENGLISH 20801217 American Literature 1 3	3-0
ENGLISH 20801218 American Literature 2 3	3-0
ENGLISH 20801219 Western World Lit: Classical Antiquity to the Middle Ages 3	3-0
ENGLISH 20801220 Western World Lit: Early Renaissance to Present 3	3-0
ENGLISH 20801221 Literature and Popular Culture 3	3-0
ENGLISH 20801222 U.S. Latino Literature 3	3-0
ENGLISH 20801223 Peace, Conflict, and Literature: The Arts of the Contact 3	3-0
Zone	00
ENGLISH 20801226 Introduction to African Literature 3	3-0
ENGLISH 20801227 Children's Literature 3	3-0
ENGLISH 20801229 Contemporary Lit 3	3-0
ENGLISH 20801230 Classical Mythology 3	3-0
ENGLISH 20801231 19th c. Russian Literature in Translation 3	3-0
ENGLISH 20801232 20th c. Russian Literature in Translation 3	3-0
ENGLISH 20801252 Women In Literature 3	3-0
LITTRANS 20802250 Literature in Translation 3	3-0
	3-0
Music Courses - Studio/Hands-on MUSIC 20805205 Class Voice 1 1	1.0
	1-0 1-0
	2-0
MUSIC 20805211 Orchestra 1 1	0-2
MUSIC 20805212 Orchestra 2 1	0-2
MUSIC 20805216 Concert Band 1 1	0-2
MUSIC 20805217 Concert Band 2 1	0-2
MUSIC 20805219 Jazz Ensemble 1 1	0-2
MUSIC 20805220 Jazz Ensemble 2 1	0-2
MUSIC 20805221 Class Piano 1 1	0-2
MUSIC 20805222 Class Piano 2 1	0-2
MUSIC 20805270 Madison College Chorale 1	0-2
MUSIC 20805271 Madison College Chorale 2 1	0-2
MUSIC 20805272 Madrigal Choir 1	0-2
MUSIC 20805279 World Drumming Ensemble 1 1	0-2
MUSIC 20805280 World Drumming Ensemble 2 1	0-2
MUSIC 20805281 World Drumming Ensemble 3 1	0-2
MUSIC 20805282 World Drumming Ensemble 4 1	0-2
Music Courses - non Studio/Hands-on	
MUSIC 20805207 World Music 3	3-0
MUSIC 20805227 Music Appreciation 3	3-0
MUSIC 20805260 Music Theory Fundamentals 3	3-0
MUSIC 20805261 Music Theory 1 3	3-0
MUSIC 20805262 Music Theory 2 3	3-0
MUSIC 20805263 Jazz History 3	3-0
MUSIC 20805265 Jazz Fisioly 5 MUSIC 20805267 Aural Skills 1 1	0-2
	0-2
MUSIC 20805278 Hist Pop/Rock Music 3	3-0
Philosophy Courses	2.0
PHILOS 20809258 Philosophy Through Film 3	3-0
PHILOS 20809259 Classics in Philosophy 3	3-0
PHILOS 20809260 Intro Philosophy 3	3-0



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PHILOS 20809261	Elementary Logic	4	4-0
PHILOS 20809262	Contemporary Moral Issues	3	3-0
PHILOS 20809263	East/West World View - Liberal Arts Transfer	3	3-0
PHILOS 20809264	Introduction to Logic and Critical Thinking	3	3-0
PHILOS 20809266	Ethics In Medicine	3	3-0
PHILOS 20809268	Social Ethics	3	3-0
PHILOS 20809276	Business Ethics	3	3-0
World Languages Courses			
SPANISH 20802211	Spanish 1	4	3-2
SPANISH 20802212	Spanish 2	4	3-2
SPANISH 20802213	Spanish 3	4	3-2
SPANISH 20802214	Spanish 4	4	3-2
SPANISH 20802217	Spanish for Heritage Speakers	4	3-2
FRENCH 20802221	French 1	4	3-2
FRENCH 20802222	French 2	4	3-2
FRENCH 20802223	French 3	4	3-2
FRENCH 20802224	French 4	4	3-2
CHINESE 20802230	Introduction to Mandarin Chinese	3	2-2
CHINESE 20802231	Introduction to Mandarin Chinese 2	3	2-2
ARABIC 20802240	Intro to Modern Arabic 1	3	2-2
ARABIC 20802241	Intro to Modern Arabic 2	3	2-2
Interdisciplinary Humanitie		-	
LDRSHP 20810267	Leadership As An Art	3	3-0
		Ũ	00
courses must include a lab from any of the listed math	al science course and one physical science is required. Both o poratory. The remaining credits to fulfill the requirement can b mematics and science courses. sets minimum mathematics requirement		
MATH 20804210	Math for Elementary Teachers	3	3-0
MATH 20804211	Quantitative Reasoning	3	2-2
MATH 20804212	College Algebra	3	2-2
MATH 20804213	Trigonometry	3	2-2
MATH 20804214	Math for Elementary Teachers 2	3	3-0
MATH 20804220	Finite Math	3	2-2
MATH 20804221	Calculus Methods for Business and Social Sciences I	5	5-0
MATH 20804223	Calculus Methods for Business and Social Sciences II	3	2-2
MATH 20804228	Calculus w Algebra & Trigonometry 1	5	5-0
MATH 20804229	Math Analysis	5	5-0
MATH 20804230	Calculus w Algebra & Trigonometry II	5	5-0
MATH 20804231	Calculus and Analytic Geometry 1	5	5-0
MATH 20804232	Calculus and Analytic Geometry 2	5	5-0
MATH 20804233	Calculus 3	5	5-0
MATH 20804240	Basic Statistics	4	3-2
MATH 20804241	Introduction to Engineering Statistics	3	1-4
MATH 20804255	Techniques in Ordinary Differential Equations	3	1-4
MATH 20804256	Elementary Matrix and Linear Algebra	3	1-4
MATH 20804265	Introduction to Discrete Mathematics	3	2-2
	ay be used to meet the 20 credit requirement	Ũ	
MATH 10804134	Mathematical Reasoning	3	2-2
MATH 20804200	Principles Of Geometry	3	1-4
MATH 20804201	Intermediate Algebra	4	3-2
MATH 20804202	Intermediate Algebra I	3	2-2
MATH 20804202	Intermediate Algebra 2	3	2-2
MATH 20804208	Computer Science	4	3-2
Biology Courses - with Lat	•	т	~ _
BIOLOGY 20806203	Introductory Zoology	5	4-2
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
BIOLOGY 20806207	Anatomy and Physiology 1	4	3-2
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BIOLOGY 20806208	Anatomy and Physiology 2	4	3-2
BIOLOGY 20806215	Botany	5	3-4
BIOLOGY 20806226	Introduction To Human Biology	5	4-2
BIOLOGY 20806262	Anatomy and Physiology for Exercise Lab	1	0-2
BIOLOGY 20806271	Cellular and Molecular Biology	5	3-4
BIOLOGY 20806272	Organismal Biology	5	3-4
BIOLOGY 20806273	Microbiology-University Medical	5	3-4
BIOLOGY 20806274	General Microbiology	5	3-4
BIOLOGY 20806286	Environmental Science	4	2-4
Biology Courses - without	Lab		
BIOLOGY 20806204	Biological Greek and Latin Terminology	3	3-0
BIOLOGY 20806280	Environmental Issues	3	3-0
BIOLOGY 20806281	Ecology/Conservation Biology	3	3-0
Chemistry Courses - with I			
CHEM 20806200	Liberal Arts Chemistry	5	3-4
CHEM 20806201	General, Organic & Biological Chemistry	5	4-2
CHEM 20806209	College Chemistry 1	5	3-4
CHEM 20806212	College Chemistry 2	5	3-4
CHEM 20806213	Organic Chemistry 1	5	3-4
CHEM 20806213	Organic Chemistry 2	5	3-4
CHEM 20806214	Chemistry for Biotechnology	3	2-2
Physical Science Courses		0	
PHYSICS 20806221	University Physics 1	5	3-4
PHYSICS 20806222	University Physics 2	5	3-4
PHYSICS 20806222 PHYSICS 20806223	University Physics 2 University Physics 1-Calculus-Based	5	2-6
		5	
PHYSICS 20806224	University Physics 2-Calculus Based		2-6
EARTHSCI 20806244	General Geology	4	3-2
EARTHSCI 20806247	Earth Science Lab	1	0-2
EARTHSCI 20806248	Weather and Climate Laboratory	1	0-2
ASTRON 20806253	Astronomy: The Solar System	4	3-2
ASTRON 20806254	Astronomy: Stars & Galaxies	4	3-2
Physical Science Courses			
PHYSICS 20806220	Physics of Everyday Life	3	3-0
PHYSICS 20806232	Statics	3	2-2
EARTHSCI 20806241	Earth Science	3	3-0
EARTHSCI 20806245	Weather And Climate	3	3-0
EARTHSCI 20806246	Survey of Oceanography	3	3-0
EARTHSCI 20806249	Geologic Evolution of the Earth	4	3-2
EARTHSCI 20806250	Climate and Climate Change	3	3-0
EARTHSCI 20806252	Natural Hazards	3	3-0
PHYSICS 20806291	Introduction to Renewable Energy	3	3-0
Social Science (9 credits			
	m at least two disciplines is required. Choose courses from the		
	economics, history, political science, psychology, sociology, ar	nd	
interdisciplinary social scie	ence.		
Anthropology Courses	Interchenting to the Archaeolagy of Mathematica Marth	~	2.0
ANTHRO 20809279	Introduction to the Archaeology of Native North America	3	3-0
ANTHRO 20809280	General Anthropology	3	3-0
ANTHRO 20809281	Archaeology & Prehistoric World	3	3-0
ANTHRO 20809283	Cultural Anthropology & Human Diversity	3	3-0
ANTHRO 20809285	Anthropology of Myth, Magic, and Religion	3	3-0
ANTHRO 20809286	The Anthropology of Globalization & Multiculturalism	3	3-0
ANTHRO 20809287	Anthropology of Islamic Societies and Cultures	3	3-0
ANTHRO 20809288	Human Biology & Physical Anthropology	3	3-0
ANTHRO 20809289	World Regional Geography	3	3-0
ANTHRO 20809292	Agriculture, Food, and Society	3	3-0
Economics Courses			
ECON 20809211	Macro Economics	3	3-0
ECON 20809212	Micro Economics	3	3-0



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ECON 20809214	Intro International Econ	3	3-0	
ECON 20809228	Environmental Economics	3	3-0	
ECON 20809269	Energy And Society	3	3-0	
Economics Elective Cou	irse			
ECON 10809195	Economics	3	3-0	
History Courses				
HISTORY 20803204	Renaissance, Reformation, and Revolution	3	3-0	
HISTORY 20803205	Europe and Modern World	3	3-0	
HISTORY 20803211	Am Hist 1607-1865	3	3-0	
HISTORY 20803212	Am Hist 1865-Pres.	3	3-0	
HISTORY 20803214	Native American History - Liberal Arts Transfer	3	3-0	
HISTORY 20803215	American History Since 1945	3	3-0	
HISTORY 20803220	History Of West Civilization 1	3	3-0	
HISTORY 20803224	History of Sub Saharan Africa	3	3-0	
HISTORY 20803225	World In 20th Century	3	3-0	
HISTORY 20803229	Vietnam/American-1945-Present	3	3-0	
HISTORY 20803230	Public Man, Private Woman: Bronze Age to Glass Ceiling	3	3-0	
HISTORY 20803233	Gender and Women's History in Cultural Representations	3	3-0	
HISTORY 20803234	Gender and Women's Global History	3	3-0	
HISTORY 20803240	Afro-American History	3	3-0	
Political Science Course	•	Ū	00	
POLISCI 20809218	Law and Society	3	3-0	
POLISCI 20809220	American Foreign Policy	3	3-0	
POLISCI 20809221	American Ntl Govt	3	3-0	
POLISCI 20809222	State and Local Government	3	3-0	
POLISCI 20809223	International Relations	3	3-0	
POLISCI 20809227	Political Theory	3	3-0	
POLISCI 20809242	Public Policy	3	3-0	
POLISCI 20809243	Comparative Politics	3	3-0	
POLISCI 20809243 POLISCI 20809244	Russian Politics	3	3-0	
	Latin American Politics	3	3-0	
POLISCI 20809245	African Politics	3	3-0	
POLISCI 20809246		3		
POLISCI 20809247	East Asian Politics		3-0	
POLISCI 20809248	Politics of India	3	3-0	
POLISCI 20809254	Political Science Research Methods	3	3-0	
Psychology Courses	Llumon Covuelity	2	2.0	
PSYCH 20809201	Human Sexuality	3	3-0	
PSYCH 20809225	Social Psychology	3	3-0	
PSYCH 20809231	Intro Psychology	3	3-0	
PSYCH 20809233	Developmental Psychology	3	3-0	
PSYCH 20809237	Abnormal Psych	3	3-0	
PSYCH 20809239	Child Human Development	3	3-0	
PSYCH 20809249	Educational Psychology	3	3-0	
Sociology Courses	Casial Drahlana	~	2.2	
SOC 20809202	Social Problems	3	3-0	
SOC 20809203	Intro Sociology	3	3-0	
SOC 20809204	Marriage and the Family	3	3-0	
SOC 20809207	Criminology	3	3-0	
SOC 20809229	Social Movements	3	3-0	
SOC 20809230	Statistics for the Social Sciences	4	4-0	
SOC 20809240	Introduction to Latin America	3	3-0	
SOC 20809251	Sociology of the Middle East and North Africa	3	3-0	
SOC 20809252	Race and Ethnicity in the U.S.	3	3-0	
SOC 20809253	Sociology of Gender	3	3-0	
SOC 20809275	Sociology of Religion	3	3-0	
SOC 20809277	Couple Relationships	1	1-0	
SOC 20809291	Technology and Society	3	3-0	
Interdisciplinary Social S				



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SOCSCI 20809210	Psychology of Men	3	3-0	
SOCSCI 20809234	Psychology of Women	3	3-0	
Electives (16 credits)				
Select college transfer co	ourses beyond the minimum requirements. A maximum of one cre	edit of a		
	ty course may be selected.			
Ethnic Studies (One co				
	oward Humanities/Fine Arts, Social Science, or Electives.			
ENGLISH 20801207	World Indigenous Literatures	3	3-0	
ENGLISH 20801212	Ethnic Literature	3	3-0	
ENGLISH 20801213	Native American Literature	3	3-0	
ENGLISH 20801214	African American Literature	3	3-0	
ENGLISH 20801222	U.S. Latino Literature	3	3-0	
HISTORY 20803214	Native American History - Liberal Arts Transfer	3	3-0	
HISTORY 20803240	Afro-American History	3	3-0	
SOC 20809252	Race and Ethnicity in the U.S.	3	3-0	
ANTHRO 20809283	Cultural Anthropology & Human Diversity	3	3-0	
ANTHRO 20809286	The Anthropology of Globalization & Multiculturalism	3	3-0	
Literature (One course)				
	ا unt toward fulfilling the Humanities and Fine Arts or Electives requ	lirements		
ENGLISH 20801204	Introduction to Literature	3	3-0	
ENGLISH 20801207	World Indigenous Literatures	3	3-0	
ENGLISH 20801211	Gay & Lesbian Literature	3	3-0	
ENGLISH 20801212	Ethnic Literature	3	3-0	
ENGLISH 20801213	Native American Literature	3	3-0	
ENGLISH 20801214	African American Literature	3	3-0	
ENGLISH 20801215	British Literature 1	3	3-0	
ENGLISH 20801216	British Literature 2	3	3-0	
ENGLISH 20801217	American Literature 1	3	3-0	
ENGLISH 20801218	American Literature 2	3	3-0	
ENGLISH 20801219	Western World Lit: Classical Antiquity to the Middle Ages	3	3-0	
ENGLISH 20801220	Western World Lit: Early Renaissance to Present	3	3-0	
ENGLISH 20801221	Literature and Popular Culture	3	3-0	
ENGLISH 20801222	U.S. Latino Literature	3	3-0	
ENGLISH 20801223	Peace, Conflict, and Literature: The Arts of the Contact Zone	3	3-0	
ENGLISH 20801226	Introduction to African Literature	3	3-0	
ENGLISH 20801227	Children's Literature	3	3-0	
ENGLISH 20801229	Contemporary Lit	3	3-0	
ENGLISH 20801230	Classical Mythology	3	3-0	
ENGLISH 20801231	19th c. Russian Literature in Translation	3	3-0	
ENGLISH 20801232	20th c. Russian Literature in Translation	3	3-0	
ENGLISH 20801250	Women In Literature	3	3-0	
LITTRANS 20802250	Literature in Translation	3	3-0	
World Languages (One				
World Languages (One May be met with one year	ar in high school with a grade of "C" or better OR one semester in	college		
College course may also	count toward Humanities/Fine Arts or Electives.	2011090.		
SPANISH 20802211	Spanish 1	4	3-2	
SPANISH 20802212	Spanish 2	4	3-2	
SPANISH 20802213	Spanish 3	4	3-2	
SPANISH 20802214	Spanish 4	4	3-2	
SPANISH 20802215	Spanish 5	3	3-0	
FRENCH 20802221	French 1	4	3-2	
FRENCH 20802222	French 2	4	3-2	
FRENCH 20802223	French 3	4	3-2	
FRENCH 20802224	French 4	4	3-2	
CHINESE 20802230	Introduction to Mandarin Chinese	3	2-2	
CHINESE 20802231	Introduction to Mandarin Chinese 2	3	2-2	



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Effective: 2016-2017

ARABIC 20802240	Intro to Modern Arabic 1	3	2-2
ARABIC 20802241	Intro to Modern Arabic 2	3	2-2



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Real world smart.

Machine Tool Operations

Program Number: 314201

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
MACHT 32420322	Machine Tool 1	4	2-6
MACHT 32420323	Machine Tool 2	4	2-6
MACHT 32420346	Intro to CNC - G-code Programming	2	2-2
MACHT 32420351	Elements of Basic Metrology	2	4-0
COMM 31801356	Communications 1	1	2-0
MATH 31804381	Machine Tool Math 1	2	4-0
Second Semester			
MATH 31804382	Machine Tool Math 2	1	2-0
MACHT 32420304	Intermediate Metrology Applications	1	0-2
MACHT 32420324	Machine Tool 3	4	2-6
MACHT 32420325	Machine Tool 4	4	2-6
MACHT 32420337	Manufacturing w/Solid Modeling-2D	2	4-0
MACHT 32420348	Applied CNC-Conversational and Setup	2	2-2
MACHT 32420388	Tool and Fixture Design	1	2-0
MACHT 32420390	Fundamentals of Metallurgy	2	4-0



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Machine Tooling Technics

Program Number: 324205

A Two Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
MACHT 32420322	Machine Tool 1	4	2-6
MACHT 32420323	Machine Tool 2	4	2-6
MACHT 32420346	Intro to CNC - G-code Programming	2	2-2
MACHT 32420351	Elements of Basic Metrology	2	4-0
COMM 31801356	Communications 1	1	2-0
MATH 31804381	Machine Tool Math 1	2	4-0
Second Semester			
MACHT 32420304	Intermediate Metrology Applications	1	0-2
MACHT 32420324	Machine Tool 3	4	2-6
MACHT 32420325	Machine Tool 4	4	2-6
MACHT 32420337	Manufacturing w/Solid Modeling-2D	2	4-0
MACHT 32420348	Applied CNC-Conversational and Setup	2	2-2
MACHT 32420388	Tool and Fixture Design	1	2-0
MACHT 32420390	Fundamentals of Metallurgy	2	4-0
MATH 31804382	Machine Tool Math 2	1	2-0
Third Semester		_	
MACHT 32420326	Machine Tool 5	4	2-6
MACHT 32420327	Machine Tool 6	5	2-8
MACHT 32420336	Manufacturing w/Solid Modeling 3D	2	4-0
MACHT 32420389	Applied CNC - Intermediate Operations	2	1-3
MACHT 32420394	Tool Making Theory 1	2	4-0
PHYSICS 31806363	Science 1	2	2-2
Fourth Semester			
INDMANUF 10623300	Fluid Power 1 for Industry	1	0-2
INDMANUF 10623310	Mechanisms for Industry	1	0-2
MACHT 32420328	Machine Tool 7	4	2-6
MACHT 32420329	Machine Tool 8	5	2-8
MACHT 32420370	Manufacturing w/Solid Modeling-Advanced	1	1-1
MACHT 32420391	Applied CNC - Advanced Operations	1	0-2
MACHT 32420393	Job Orientation - Machine Tooling Technics Program	1	2-0
MACHT 32420395	Tool Making Theory 2	2	4-0
WELD 32442313	Related Welding	1	0-2



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Machinist Apprenticeship

Program Number: 504202

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester MACHT 50420512	Machinist 1	2	3-1
Second Semester MACHT 50420513	Machinist 2	2	3-1
Third Semester MACHT 50420514	Machinist 3	2	3-1
Fourth Semester MACHT 50420515	Machinist 4	2	3-1
Fifth Semester MACHT 50420516	Machinist 5	2	3-1
Sixth Semester MACHT 50420517	Machinist 6	2	3-1



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Program Number: 504231

Maintenance Mechanic/Millwright Apprentice

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester MILLWRGT 50423561	Prnt Rdg/Math/Tools & Methods	2	3-1
Second Semester MILLWRGT 50423562	Prnt Rdg/Math/Mech Pwr Trans 1	2	3-1
Third Semester MILLWRGT 50423563	Prnt Rdg/Math/Mech Pwr Trans 2	2	3-1
Fourth Semester MILLWRGT 50423564	Print Reading/Math/Fluid Power	2	3-1
Fifth Semester MILLWRGT 50423565	Prnt Rdg/Math/Pipefit/Mech	2	3-1
Sixth Semester MILLWRGT 50423566	Print Reading/Math/Metalwork	2	3-1
Seventh Semester MILLWRGT 50423567	Print Reading/Math/Electrical	2	3-1
Eighth Semester MILLWRGT 50423568	Prnt Read/Math/Mach Repair	2	3-1



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Real world smart.

Program Number: 311027

Management Trainee

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

3 3 1 3 3 3	3-0 3-0 0.27-1.5 3-0 3-0
3 1 3 3	3-0 0.27-1.5 3-0 3-0
1 3 3	0.27-1.5 3-0 3-0
3	3-0 3-0
3	3-0
3	
	3-0
4	4-0
3	3-0
1	0.27-1.5
3	3-0
3	3-0
3	3-0
4	4-0
3	3-0
3	3-0
	3



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Program Number: 901969CERT

Managing a Multicultural Workforce

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
SUPDEV 10196116	Organizational Behavior	3	3-0
SUPDEV 10196189	Team Building & Problem Solving	3	3-0
SUPDEV 10196169	Diversity & Change Management	3	3-0
HRMGT 10116168	Employment Law	3	3-0



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Effective: 2016-2017

Program Number: 101043

Marketing

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804144	Math of Finance	3	3-0
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
COMPSOFT 10103137	Word - Beginning	1	0.27-1.5
COMPSOFT 10103143	PowerPoint - Beginning	1	0.27-1.5
MKTG 10104102	Marketing Principles	3	3-0
MKTG 10104104	Selling Principles	3	3-0
MKTG 10104113	Leadership Ethics in the Digital Age	3	3-0
Second Semester			
SPEECH 10801198	Speech	3	3-0
MKTG 10104112	Marketing Design Strategies	3	3-0
MKTG 10104114	Social Media Principles	3	3-0
MKTG 10104125	Principles of Advertising	3	3-0
MKTG 10104162	Mobile Marketing (Social Media)	3	3-0
Third Semester			
COMM 10801196	Oral/Interpersonal Communication	3	3-0
ENGLISH 10801197	Technical Reporting	3	3-0
MKTG 10104126	Public Relations	3	3-0
MKTG 10104164	Marketing Digital Design	3	3-0
	Marketing Approved Elective	2	
MKTG 10104169	Internet Marketing	3	3-0
Fourth Semester	Factoria	2	2.0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
MKTG 10104103	Marketing Research	3	3-0
MKTG 10104115	Capstone Campaign Global Marketing	3	3-0 3-0
MKTG 10104180 MKTG 10104188	5	3 1	3-0 0-2
MK1G 10104188	Marketing Portfolio	1	0-2
Marketing Approved Ele		_	
MKTG 10104165	Marketing Internship	3	1-0
MKTG 10104187	Global Studies Seminar	3	3-0
MKTG 10104160	Sales Management	3	3-0
JOURNAL 20801262	Social Media Writing	3	3-0
MKTG 10104802	Honors - Marketing	3	0-0



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Marketing-Social Media

Program Number: 301043

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

MKTG 10104114 MKTG 10104162 MKTG 10104164 MKTG 10104169

- Social Media Principles Mobile Marketing (Social Media) Marketing Digital Design Internet Marketing
- iples 3 3-0 Social Media) 3 3-0 esign 3 3-0 3 3-0 3 3-0 3 3-0 3 3-0 3 3-0



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Mechanical Design Technology

Program Number: 106061

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
MECTEC 10606100	Engineering Technology Communications	3	1-4
MECTEC 10606101	Engineering Technology Fundamentals	2	1-2
MECTEC 10606120	2-D CAD (Computer Aided Drafting)	2	1-2
MECTEC 10606130	SolidWorks 1	2	1-2
MECTEC 10606160	Fundamentals of Manufacturing/Engineering Materials	2	1-2
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804114	College Technical Math 1B	2	2-0
Second Semester			
MECTEC 10606131	SolidWorks 2	2	1-2
MECTEC 10606140	Dimensioning/GDT	3	2-2
MECTEC 10606155	Statics And Mechanics	3	2-2
MECTEC 10606161	Manufacturing Processes	2	1-2
MECTEC 10606170	Strength Of Materials	3	2-2
MATH 10804116	College Technical Math 2	4	4-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Third Semester			
MECTEC 10606104	Engineering Technology Practices	3	1-4
MECTEC 10606116	Machine Design	3	2-2
MECTEC 10606125	Plastics for Mechanical Design	3	2-2
MECTEC 10606163	Engineering Technology Project Management	2	1-2
MECTEC 10606164	Quality Systems	2	1-2
MECTEC 10606193	Career Development - Mechanical Design Program	1	1-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
Fourth Semester			
MECTEC 10606112	Tool Design Technology	3	1-4
MECTEC 10606150	CAE Applications	2	1-2
MECTEC 10606152	PLC, Hydraulics, Pneumatics	2	1-2
MECTEC 10606186	Engineering Technology Applications	3	0-6
ENGLISH 10801197	Technical Reporting	3	3-0
PHYSICS 10806154	General Physics 1	4	3-2



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Medical Administrative Specialist

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester	Quitest	4	0 07 4 5
COMPSOFT 10103165	Outlook	1	0.27-1.5 1-4
ADMINPRF 10106107	Business Document Applications	3 3	2-2
ADMINPRF 10106108 ADMINPRF 10106139	Proofreading And Editing	3 1	2-2 0.27-1.5
ADMINPRF 10106139	Keyboard Skillbuilding Medical Language for the Business Professional 1	2	0.27-1.5
ENGLISH 10801195	Written Communication	2	3-0
SOC 10809172	Introduction to Diversity Studies	3	3-0 3-0
ADMINPRF 10106164	Customer Contact Skills	1	1-0.5
ADMINERE 10100104		I	1-0.5
Second Semester ADMINPRF 10106109	Business Spreadsheet Applications	3	1-4
ADMINPRF 10106109	Medical Administrative Procedures	3	1-4
ADMINPRF 10106103	Medical Language for the Business Professional 2	2	1-4
MEDTERM 10501153	Body Structure & Function - Used in a variety of Degree	3	3-0
MEDTERM 10501155	Programs	5	5-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
Third Semester			
ADMINPRF 10106190	Professional Development	1	1-0.5
ADMINPRF 10106191	Introduction to Healthcare Documentation	2	0.5-3
ADMINPRF 10106231	Business Presentations and Publications	3	1-4
ADMINPRF 10106240	Business Information Management	3	1-4
ADMINPRF 10106106	Business Writing and Research	3	2-2
ADMINPRF 10106166	Healthcare Documentation Techniques and Procedures	3	2-2
Fourth Semester			
SPEECH 10801198	Speech	3	3-0
ADMINPRF 10106134	Software Projects	2	0.5-3
ADMINPRF 10106177	Specialized Insurance Claims	2	1-2
ADMINPRF 10106186	Introduction to Project Management	2	0.5-3
ADMINPRF 10106194	Career Management	1	1-0.5
ADMINPRF 10106195	Internship - Administrative Professional & Medical Administrative Specialist	1	0-0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0



Effective: 2016-2017

Program Number: 101064

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Program Number: 315091

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
MASST 31509301	Medical Asst Admin Procedures	2	2-2
MASST 31509302	Human Body in Health & Disease	3	6-0
MASST 31509303	Medical Asst Lab Procedures 1	2	4-0
MASST 31509303	Medical Asst Lab Procedures 1	2	2-2
MASST 31509304	Medical Asst Clin Procedures 1	4	4-4
MEDTERM 10501101	Medical Terminology	3	3-0
MEDTERM 10501107	Intro to Healthcare Computing	2	1-2
COMPSOFT 10103137	Word - Beginning	1	0.27-1.5
MEDTERM 31501308	Pharmacology for Allied Health	2	4-0
Second Semester			
MASST 31509305	Med Asst Lab Procedures 2	2	2-2
MASST 31509306	Med Asst Clin Procedures 2	3	2-4
MASST 31509307	Medical Office Insurance & Finance	2	4-0
MASST 31509309	Medical Law, Ethics and Professionalism	2	4-0
MASST 31509310	Medical Assistant Practicum	3	2-0
ENGLISH 10801195	Written Communication	3	3-0



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Medical Billing Specialist

Program Number: 301065

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
COMPSOFT 10103165	Outlook	1	0.27-1.5	
ADMINPRF 10106107	Business Document Applications	3	1-4	
ADMINPRF 10106139	Keyboard Skillbuilding	1	0.27-1.5	
ADMINPRF 10106164	Customer Contact Skills	1	1-0.5	
ADMINPRF 10106178	Medical Language for the Business Professional 1	2	1-2	
ENGLISH 10801195	Written Communication	3	3-0	
Second Semester				
ADMINPRF 10106109	Business Spreadsheet Applications	3	1-4	
ADMINPRF 10106165	Medical Administrative Procedures	3	1-4	
ADMINPRF 10106177	Specialized Insurance Claims	2	1-2	
ADMINPRF 10106179	Medical Language for the Business Professional 2	2	1-2	



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Medical Coding Specialist

Program Number: 315302

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Pre-Program Courses MEDTERM 10501153	Body Structure & Function - Used in a variety of Degree Programs	3	3-0
MEDTERM 10501101	Medical Terminology	3	3-0
COMPSOFT 10103121	Windows 10	1	0.27-1.5
COMPSOFT 10103137	Word - Beginning	1	0.27-1.5
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
Core Program Courses			
Cluster 1			
MEDREC 10530181	Introduction to the Health Record	1	1-0
MEDREC 10530182 MEDREC 10530197	Human Disease for Health Professions	3 3	3-0 2-2
MEDREC 10530197 MEDREC 10530199	ICD Diagnosis Coding ICD Procedure Coding	2	2-2 1-2
MEDREC 10550199	ICD Flocedure Coulling	2	1-2
Cluster 2			
MEDREC 10530184	CPT Coding	3	2-2
MEDREC 10530185	Healthcare Reimbursement	2	1-2
MEDREC 10530168	Advanced ICD Coding	3	2-2
Cluster 3			
MEDREC 10530176	Health Data Management	2	1-2
MEDREC 10530187	Advanced CPT Coding	3	2-2
MEDREC 10530188	Certification & Professional Development	1	1-0
MEDREC 10530189	Management of Coding Services	1	1-0



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Medical Laboratory Technician

Program Number: 105131

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
LABASST 10513110	Basic Lab Skills	1	0-2
LABASST 10513111	Phlebotomy	2	0-4
LABASST 10513111	Phlebotomy	2	3-0
LABASST 10513113	QA Lab Math	1	1-0
LABASST 10513114	Urinalysis	2	0-4
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
CHEM 20806201	General, Organic & Biological Chemistry	5	4-2
ENGLISH 10801195	Written Communication	3	3-0
Second Semester			
LABASST 10513115	Basic Immunology Concepts	2	0-4
LABASST 10513115	Basic Immunology Concepts	2	3-0
LABASST 10513120	Special Topics In Hematology	1	0-6
LABASST 10513120	Special Topics In Hematology	1	0.5-1
LABASST 10513121	Coagulation	1	0-2
LABASST 10513121	Coagulation	1	0-2
LABASST 10513109	Blood Bank	4	2-4
SPEECH 10801198	Speech	3	3-0
BIOLOGY 20806273	Microbiology-University Medical	5	3-4
Third Semester (summer		_	
SOC 10809197	Contemporary Amer Society	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Fourth Semester			
LABASST 10513130	Advanced Hematology	2	0-4
LABASST 10513131	Clinical Chemistry 1	3	0-6
LABASST 10513132	Clinical Chemistry 2	2	0-4
LABASST 10513133	Clinical Microbiology	4	0-8
LABASST 10513170	Introduction to Molecular Diagnostics	1	1-0
	Elective	2	
Fifth Semester			
LABASST 10513140	Advanced Microbiology	2	2-0
LABASST 10513141	Pre-Clinical Experience	2	0-0
LABASST 10513141	Pre-Clinical Experience	2	0-0
LABASST 10513151	Clinical Experience 1 - Clinical Lab Tech Program as of 2009-2010	3	0-6
LABASST 10513152	Clinical Experience 2	4	0-8
LABASST 10513153	Clinical Portfolio	1	0-2



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Meeting & Event Management for the Administrative Professional

Program Number: 901096CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
ADMINPRF 10106109	Business Spreadsheet Applications	3	1-4
EVTMGT 10109102	Fundamentals Of Meeting Mgmt	3	3-0
EVTMGT 10109110	Meeting Coordination	3	3-0
EVTMGT 10109111	Registration/Housing Logistics	2	2-0



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Meeting and Event Management

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
ACCTG 10101106	Accounting Fundamentals	3	3-0
EVTMGT 10109102	Fundamentals Of Meeting Mgmt	3	3-0
EVTMGT 10109111	Registration/Housing Logistics	2	2-0
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
Second Semester			
MKTG 10104114	Social Media Principles	3	3-0
EVTMGT 10109104	Meeting Design	3	3-0
EVTMGT 10109108	Mtgs Industry Budget/Finance	2	2-0
EVTMGT 10109110	Meeting Coordination	3	3-0
MKTG 10104102	Marketing Principles	3	3-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
Third Semester			
EVTMGT 10109109	Special Event Management	3	3-0
EVTMGT 10109112	Exposition Management	2	2-0
EVTMGT 10109116	Fundamentals of Green Meetings and Events	2	2-0
EVTMGT 10109119	Event Professional Best Practices	3	3-0
SOC 10809172	Introduction to Diversity Studies	3	3-0
ECON 10809195	Economics	3	3-0
Fourth Semester			
EVTMGT 10109113	Risk Management, Negotiations, and Legal Issues	3	3-0
EVTMGT 10109114	Meeting/Event Mgmt Internship	2	0-0
EVTMGT 10109117	Partnership Development	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
	Elective	3	



Effective: 2016-2017

Program Number: 101096

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Effective: 2016-2017

Program Number: 314572

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
INDMANUF 10623100	Safety for Industry	1	0-2
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
MACHT 32420349	Basic Metrology (Part A)	1	2-0
WELD 31442332	Oxy-Fuel Cutting 1	1	1-1
WELD 31442318	Gas Tungsten Arc Welding 1 (GTAW/TIG)	2	0-4
WELD 31442323	Basic Gas Metal Arc Welding (GMAW/MIG)	2	2-2
MTLFAB 31457301	Fabrication 1	2	1-3
MTLFAB 31457302	Fabrication 2	2	1-3
MTLFAB 31457305	CNC Operation	2	1-3
MATH 31804379	Vocational Math 1	1	2-0
Second Semester			
WELD 31442326	Flux Cored & Advanced Gas Metal Arc Welding (FCAW/GMAW)	2	1-3
WELD 31442328	Gas Tungsten Arc Welding 2 (GTAW/TIG)	2	1-3
WELD 31442390	Fundamentals of Metallurgy	2	4-0
MTLFAB 31457303	Fabrication 3	2	1-3
MTLFAB 31457304	Fabrication 4	2	1-3
MTLFAB 31457306	CNC Programming	2	1-3
MTLFAB 31457307	Jig and Fixture Development	2	1-3
COMM 32801350	Workplace Communication for Industry	1	2-0



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Effective: 2016-2017

Microsoft Office

Program Number: 301066

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

			Hrs/Week
		Credits/Units	LEC-LAB
Courses			
COMPSOFT 10103165	Outlook	1	0.27-1.5
ADMINPRF 10106107	Business Document Applications	3	1-4
ADMINPRF 10106109	Business Spreadsheet Applications	3	1-4
ADMINPRF 10106231	Business Presentations and Publications	3	1-4
ADMINPRF 10106240	Business Information Management	3	1-4



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Program Number: 901031CERT

Microsoft Office Certificate -Core

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Microsoft Office Certific	ate Core		
COMPSOFT 10103121	Windows 10	1	0.27-1.5
COMPSOFT 10103165	Outlook	1	0.27-1.5
COMPSOFT 10103137	Word - Beginning	1	0.27-1.5
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
COMPSOFT 10103145	Access - Beginning	1	0.27-1.5
COMPSOFT 10103143	PowerPoint - Beginning	1	0.27-1.5



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Motorcycle, Marine & Outdoor Power Products

Program Number: 314612

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
MACHT 32420330	Metal Processes 1	2	2-2
SMENG 31461324	Basic Two- and Four-Cycle Engines	5	4-6
SMENG 31461325	Small Engine Rebuilding - Motorcycle, Marine & Outdoor Power Products Technician Program	5	4-6
SMENG 31461328	Small Engine Lab 1	1	0-2
SMLBUS 10145189	Customer Relations	2	2-0
Second Semester			
MACHT 32420331	Metals Processes 2	2	2-2
SMENG 31461326	Electrical and Hydraulic Systems	5	4-6
SMENG 31461327	Power Transmissions and Motorcycle, Marine and Outdoor Power Products	5	4-6
SMENG 31461329	Small Engine Lab 2	1	0-2
BUSADM 10102134	Business Organization, Management, and Ethics	3	3-0



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Effective: 2016-2017

Nursing Assistant

Program Number: 305431

Less Than One Year Tech Diplom

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First, Second or Summ NRSAD 30543300	er Semester Nursing Assistant	3	4-2.66



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Occupational Therapy Assistant

An Associate in Applied Arts D

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
OTASST 10514171	Introduction to Occupational Therapy	3	2-2
OTASST 10514172	Medical and Psychosocial Conditions	3	2-2
OTASST 10514173	Activity Analysis and Application	2	0-4
ENGLISH 10801195	Written Communication	3	3-0
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
PSYCH 20809231	Intro Psychology	3	3-0
Second Semester			
OTASST 10514174	OT Performance Skills	4	0-8
OTASST 10514175	Ot Fw:Specialty	3	0-0
OTASST 10514175	Ot Fw:Specialty	3	1-4
OTASST 10514176	OT Theory and Practice	3	1-4
OTASST 10514178	Geriatric Practice	3	1-4
PSYCH 20809237	Abnormal Psych	3	3-0
Select one of the follow			
ENGLISH 20801202	English 2	3	3-0
SPEECH 10801198	Speech	3	3-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
Summer Semester			
PSYCH 20809233	Developmental Psychology	3	3-0
SOC 10809172	Introduction to Diversity Studies	3	3-0
Third Semester			
OTASST 10514177	Assistive Technology and Adaptations	2	0-4
OTASST 10514179	Community Practice	2	0-4
OTASST 10514182	Physical Rehabilitation Practice	3	1-4
OTASST 10514183	Pediatric Practice	3	1-4
OTASST 10514184	OTA Fieldwork 1	2	1-2
	Elective	3	
Fourth Semester			
OTASST 10514185	OT Practice and Management	2	1-2
OTASST 10514186	OTA Fieldwork IIA	5	0-0
OTASST 10514187	OTA Fieldwork IIB	5	0-0



Effective: 2016-2017

Program Number: 105141

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Effective: 2016-2017

Program Number: 311061

Office Assistant

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ADMINPRF 10106102	Introduction to Office Professions	1	1-0.5
ADMINPRF 10106107	Business Document Applications	3	1-4
ADMINPRF 10106139	Keyboard Skillbuilding	1	0.27-1.5
ADMINPRF 10106182	Information Technology Concepts	3	2-2
ADMINPRF 10106231	Business Presentations and Publications	3	1-4
ENGLISH 10801195	Written Communication	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
Second Semester			
COMPSOFT 10103165	Outlook	1	0.27-1.5
ADMINPRF 10106108	Proofreading And Editing	3	2-2
ADMINPRF 10106109	Business Spreadsheet Applications	3	1-4
ADMINPRF 10106133	Document Formatting	2	1-2
ADMINPRF 10106164	Customer Contact Skills	1	1-0.5
ADMINPRF 10106172	Administrative Office Management	3	2-2
ADMINPRF 10106240	Business Information Management	3	1-4



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Optometric Technician

Program Number: 315162

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
OPTOMET 31516325	Optical Dispensing 1	3	3-2
OPTOMET 31516301	Ophthalmic Pre-Testing	3	3-3
OPTOMET 31516305	Basic Optical Concepts	3	3-2
OPTOMET 31516315	Ocular Anatomy	2	3-1
OPTOMET 31516339	Human Relations - Optometric Technician Program	1	2-0
Second Semester			
OPTOMET 31516326	Optical Dispensing 2	2	2-2
OPTOMET 31516330	Contact Lenses	3	2.5-2.5
OPTOMET 31516335	Ophthalmic Specialty Testing	3	4-2
OPTOMET 31516340	Patient Relations/Pract Manage	2	3.33-0
OPTOMET 31516345	Preclinical	2	0-4
OPTOMET 31516350	Clinical Experience	3	0-0



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Optometric Technician

Program Number: 315162-ET

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
OPTOMET 31516315	Ocular Anatomy	2	3-1
OPTOMET 31516301	Ophthalmic Pre-Testing	3	3-3
Second Semester			
OPTOMET 31516305	Basic Optical Concepts	3	3-2
OPTOMET 31516325	Optical Dispensing 1	3	3-2
Third Semester			
OPTOMET 31516326	Optical Dispensing 2	2	2-2
OPTOMET 31516335	Ophthalmic Specialty Testing	3	4-2
OPTOMET 31516335	Ophthalmic Specialty Testing	3	4-2
Fourth Semester			
OPTOMET 31516330	Contact Lenses	3	2.5-2.5
OPTOMET 31516340	Patient Relations/Pract Manage	2	3.33-0



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Program Number: 504241

Painting & Decorating Apprentice

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester PAINTDEC 50424590	Tech Paint Sem 1	2	3-1	
Second Semester PAINTDEC 50424591	Tech Paint Sem 2	2	3-1	
Third Semester PAINTDEC 50424592	Tech Paint Sem 3	2	3-1	
Fourth Semester PAINTDEC 50424593	Tech Paint Sem 4	2	3-1	
Fifth Semester PAINTDEC 50424594	Tech Paint Sem 5	2	3-1	
Sixth Semester PAINTDEC 50424595	Tech Paint Sem 6	2	3-1	



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Paralegal

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Prior to start of program PARALEG 10110175	Orientation to the Paralegal Profession	1	1-0
First Semester PARALEG 10110101	Introduction to Paralegalism and Legal Ethics	3	3-0
PARALEG 10110101 PARALEG 10110141	Computer Applications - Legal	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
	Elective	3	5.0
Second Semester		_	
PARALEG 10110102	Civil Litigation I	3	3-0
PARALEG 10110104	Legal Research	3	3-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
SOC 10809197	Contemporary Amer Society Selective	3	3-0
Third Semester		_	
PARALEG 10110105	Legal Writing	3	3-0
PARALEG 10110176	Career Building Techniques - Paralegal Selective	2	2-0
Choose one of the followin	5		
MATH 10804144	Math of Finance	3	3-0
BIOLOGY 10806177	Gen Anatomy & Physiology	4	3-2
BIOLOGY 20806204	Biological Greek and Latin Terminology	3	3-0
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
Fourth Semester	Civil Litigation 2	3	3-0
PARALEG 10110103 PARALEG 10110107	Legal Aspects of Business Organizations	3	3-0
PARALEG 10110107 PARALEG 10110142	Paralegal Internship	3	3-0 1-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
1111203 10009100	Selective	5	5-0
Paralegal Selectives			
PARALEG 10110106	Family Law	3	3-0
PARALEG 10110110	Real Estate Law - Paralegal	3	3-0
PARALEG 10110114	Administration Of Estates - Paralegal Program	3	3-0
PARALEG 10110115	Administrative Law	3	3-0
PARALEG 10110122	Debtor & Creditor Relations	3	3-0
PARALEG 10110160	Employment Law - Paralegal	3	3-0
PARALEG 10110168	Criminal Law 1 - Paralegal	3	3-0



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Effective: 2016-2017

Madison Area Technical College

PARALEG 10110169	Criminal Law 2	3	3-0	
PARALEG 10110170	Intellectual Property Law	3	3-0	
PARALEG 10110171	Law & Contemporary Problems	3	3-0	
PARALEG 10110172	Environmental Law - Paralegal	3	3-0	
PARALEG 10110173	Contract Law in a Global Economy	3	3-0	
PARALEG 10110116	Elder Law: Healthcare, Public Benefits and the Administrative Law Process	1	1-0	
PARALEG 10110120	Guardianships & the Protective Services System	1	1-0	
PARALEG 10110119	Advanced Family Law	1	1-0	
PARALEG 10110140	Word and Excel for Legal Professionals	1	1-0	



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Paralegal Post-Baccalaureate

Program Number: 311101

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Prior to start of first se	mester		
PARALEG 10110175	Orientation to the Paralegal Profession	1	1-0
First Semester			
PARALEG 10110101	Introduction to Paralegalism and Legal Ethics	3	3-0
PARALEG 10110102	Civil Litigation I	3	3-0
PARALEG 10110104	Legal Research	3	3-0
PARALEG 10110141	Computer Applications - Legal	3	3-0
PARALEG 10110176	Career Building Techniques - Paralegal	2	2-0
Second Semester			
PARALEG 10110105	Legal Writing	3	3-0
PARALEG 10110142	Paralegal Internship	3	1-0
	Selectives	9	
Paralegal Selectives			
PARALEG 10110103	Civil Litigation 2	3	3-0
PARALEG 10110106	Family Law	3	3-0
PARALEG 10110107	Legal Aspects of Business Organizations	3	3-0
PARALEG 10110110	Real Estate Law - Paralegal	3	3-0
PARALEG 10110114	Administration Of Estates - Paralegal Program	3	3-0
PARALEG 10110115	Administrative Law	3	3-0
PARALEG 10110122	Debtor & Creditor Relations	3	3-0
PARALEG 10110160	Employment Law - Paralegal	3	3-0
PARALEG 10110168	Criminal Law 1 - Paralegal	3	3-0
PARALEG 10110169	Criminal Law 2	3	3-0
PARALEG 10110170	Intellectual Property Law	3	3-0
PARALEG 10110171	Law & Contemporary Problems	3	3-0
PARALEG 10110172	Environmental Law - Paralegal	3	3-0
PARALEG 10110173	Contract Law in a Global Economy	3	3-0
PARALEG 10110116	Elder Law: Healthcare, Public Benefits and the	1	1-0
	Administrative Law Process	4	1.0
PARALEG 10110120	Guardianships & the Protective Services System	1	1-0
PARALEG 10110119	Advanced Family Law	1	1-0
PARALEG 10110140	Word and Excel for Legal Professionals	1	1-0



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Effective: 2016-2017

Paramedic

Program Number: 315313

Embedded Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
EMS 10531911	EMS Fundamental	2	2-0
EMS 10531912	Paramedic Medical Principles	4	4-0
EMS 10531913	Adv Patient Asses Principles	3	2-2
EMS 10531914	Adv Pre-Hospital Pharmacology	3	2-2
EMS 10531915	Paramedic Respiratory Management	2	1-2
EMS 10531916	Paramedic Cardiology	4	3-2
EMS 10531917	Paramedic Clinical/Field 1	3	0-0
EMS 10531918	Advanced Emergency Resuscitation	1	0-2
Second Semester			
EMS 10531919	Paramedic Medical Emergencies	4	4-0
EMS 10531920	Paramedic Trauma	3	2-2
EMS 10531921	Special Patient Populations	3	2-2
EMS 10531922	EMS Operations	1	1-0
EMS 10531923	Paramedic Capstone	1	0-2
EMS 10531924	Paramedic Clinical/Field 2	4	0-0
EMS 10531924	Paramedic Clinical/Field 2	4	0-0



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Program Number: 105311

Paramedic Technician

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ENGLISH 10801195	Written Communication	3	3-0
BIOLOGY 20806207	Anatomy and Physiology 1	4	3-2
POLISCI 10809122	Intro to Amer Government	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Second Semester			
SPEECH 10801198	Speech	3	3-0
MATH 10804107	College Mathematics	3	2-2
BIOLOGY 20806208	Anatomy and Physiology 2	4	3-2
SOC 10809172	Introduction to Diversity Studies	3	3-0
Third Semester			
EMS 10531911	EMS Fundamental	2	2-0
EMS 10531912	Paramedic Medical Principles	4	4-0
EMS 10531913	Adv Patient Asses Principles	3	2-2
EMS 10531914	Adv Pre-Hospital Pharmacology	3	2-2
EMS 10531915	Paramedic Respiratory Management	2	1-2
EMS 10531916	Paramedic Cardiology	4	3-2
EMS 10531917	Paramedic Clinical/Field 1	3	0-0
EMS 10531918	Advanced Emergency Resuscitation	1	0-2
Fourth Semester			
EMS 10531919	Paramedic Medical Emergencies	4	4-0
EMS 10531920	Paramedic Trauma	3	2-2
EMS 10531921	Special Patient Populations	3	2-2
EMS 10531922	EMS Operations	1	1-0
EMS 10531923	Paramedic Capstone	1	0-2
EMS 10531924	Paramedic Clinical/Field 2	4	0-0



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Effective: 2016-2017

Program Number: 102031

Photography

An Associate in Applied Arts D

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
PHOTO 10203105	Photo Composition	2	2-0
PHOTO 10203107	Studio Photography 1	3	0-6
PHOTO 10203120	Lighting Technique	2	0-4
VICOM 10206109	Intro to Electronic Design	2	0-4
ENGLISH 10801195	Written Communication	3	3-0
ECON 10809195	Economics	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
Second Semester			
PHOTO 10203108	Studio Photography 2	3	0-6
PHOTO 10203141	Color Photography 1	3	0-6
PHOTO 10203173	Photojournalism	2	0-4
VICOM 10206115	Digital Media for Photographers	3	0-6
COMM 10801196	Oral/Interpersonal Communication	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
Third Semester			
PHOTO 10203121	Commercial Photography 1	3	0-6
PHOTO 10203124	Portrait Photography	2	0-4
PHOTO 10203142	Color Photography 2	3	0-6
PHOTO 10203134	Electronic Imaging	3	0-6
MATH 10804107	College Mathematics	3	2-2
PHILOS 20809276	Business Ethics - Liberal Arts Transfer	3	3-0
Fourth Semester			
PHOTO 10203109	Studio Photography 3	3	1-4
PHOTO 10203125	Business Of Photography	1	0-2
PHOTO 10203126	Advanced Digital Studio Portrait	2	0-4
PHOTO 10203176	Photographic Communication	2	0-4
PHOTO 10203185	Portfolio Preparation - Photography Program	2	0-4
PHOTO 10203174	Photography on Location	3	0-6
	Elective	2	



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Program Number: 904801CERT

Photovoltaics

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Required (Pre-requisite)) Course List		
IND MECH 10462320	DC/AC Circuits	3	0-6
Core Course List			
Complete (at least 8) cred	dits from the following courses:		
ENERCONS 10481110	Energy Management	3	2-2
RENEWELC 10482138	Introduction to Photovoltaic Technology	2	2-0
PHYSICS 20806291	Introduction to Renewable Energy	3	3-0
Additional Course List			
Complete additional cred	its from these courses to reach a total of 15 credits:		
RENEWELC 10482103	Photovoltaic Systems and the National Electric Code	1	1-0
RENEWELC 10482135	Advanced Photovoltaic Electives	3	3-0
RENEWELC 10482137	Photovoltaic Site Assessment	1	1-0
RENEWELC 10482139	Grid-Connected Photovoltaic Design and Installation	2	2-0
RENEWELC 10482140	Grid Connected Photovoltaic System Design	1	1-0
RENEWELC 10482141	Grid Connected Photovoltaic Systems Installation Lab	1	0-2
RENEWELC 10482142	Off Grid Photovoltaic System Design	1	1-0
RENEWELC 10482143	Off Grid Photo Systems Installation Lab	1	0.5-1
RENEWELC 10482149	Photovoltaic Technical Sales	1	1-0
CHEM 20806290	Renewable Energy for International Development	3	3-0



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Physical Therapist Assistant

Program Number: 105241

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Year Spring Trimes	ster		
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
ENGLISH 10801195	Written Communication	3	3-0
PTASST 10524156	PTA Applied Kinesiology 1	4	2-4
PTASST 10524139	PTA Patient Interventions	4	2-4
PTASST 10524140	PTA Professional Issues 1	2	2-0
First Year Summer Trim	ester		
ENGLISH 10801197	Technical Reporting	3	3-0
PSYCH 20809231	Intro Psychology	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
First Year Fall Trimester			
SPEECH 10801198	Speech	3	3-0
PSYCH 20809233	Developmental Psychology	3	3-0
PTASST 10524157	PTA Applied Kinesiology 2	3	2-2
PTASST 10524142	PTA Therapeutic Exercise	3	1-4
PTASST 10524143	PTA Therapeutic Modalities	4	2-4
Second Year Spring Trir	nester		
PTASST 10524144	PTA Princ of Neuro Rehab	4	2-4
PTASST 10524145	PTA Princ of Musculo Rehab	4	2-4
PTASST 10524146	PTA Cardio and Integumentary Management	3	2-2
PTASST 10524147	PTA Clinical Practice 1	2	0-0
Interim Course			
Occurs at the end of the S	Spring Semester		
PTASST 10524148	PTA Clinical Practice 2	3	0-0
Second Year Summer T			
PTASST 10524149	PTA Rehab Across the Lifespan	2	2-0
PTASST 10524150	PTA Professional Issues 2	2	2-0
PTASST 10524151	PTA Clinical Practice 3	5	0-0
	Elective	3	
Trimesters begin in September for Fall, January for Winter, and June for Summer. Dates are not necessarily in sequence with the rest of the college. Trimesters last 15 weeks with an additional week for exams as needed. Inquire to PTA program regarding specific dates, as these may vary from year to year.			



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Plumbing Apprentice (ABC)

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester PLUMBNG 50427550	Trade Plumbing Semester 1	2	3-1
Second Semester PLUMBNG 50427551	Trade Plumbing Semester 2	2	3-1
Third Semester PLUMBNG 50427552	Trade Plumbing Semester 3	2	3-1
Fourth Semester PLUMBNG 50427553	Trade Plumbing Semester 4	2	3-1
Fifth Semester PLUMBNG 50427554	Trade Plumbing Semester 5	2	3-1
Sixth Semester PLUMBNG 50427555	Trade Plumbing Semester 6	2	3-1
Seventh Semester PLUMBNG 50427556	Trade Plumbing Semester 7	2	3-1



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Plumbing Apprentice (JAC)

Program Number: 504273

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester PLUMBNG 50427753	Water Distribution 1	2	3.6-0.4	
Second Semester PLUMBNG 50427751	Sanitary Drains 1	2	3.6-0.4	
Third Semester PLUMBNG 50427755	Sanitary Drains 2	2	3.6-0.4	
Fourth Semester PLUMBNG 50427754	Water Distribution 2	2	3.6-0.4	
Fifth Semester PLUMBNG 50427752	Vents and Venting Systems	2	3.6-0.4	
Sixth Semester PLUMBNG 50427756	Private On-Site Wastewater Treatment Systems (POWTS)	2	3.6-0.4	
Seventh Semester PLUMBNG 50427758	Plumbing Advanced Topics/TSA	2	3.6-0.4	



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Program Number: 901065CERT

Project Management Certificate for the Office Professional

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5
COMPSOFT 10103139	Excel - Intermediate	1	0.27-1.5
COMPSOFT 10103186	MS (Microsoft) Project	2	0.5-3
ADMINPRF 10106164	Customer Contact Skills	1	1-0.5
ADMINPRF 10106186	Introduction to Project Management	2	0.5-3
Plus, choose one of the	following courses:		
BUSADM 10102134	Business Organization, Management, and Ethics	3	3-0
SUPDEV 10196189	Team Building & Problem Solving	3	3-0
EVTMGT 10109102	Fundamentals Of Meeting Mgmt	3	3-0



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Radiography

Program Number: 105261

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Pre-Radiography Course Satisfactory completion of	Anatomy & Physiology prior to application or while on the pro	gram waiting	
list qualifies for priority adr	nission into the program on a space available basis, but has		
	the program. Choose from one of the following:		
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
First Semester			
RADTEC 10526149	Radiographic Procedures 1	5	5-0
RADTEC 10526158	Introduction to Radiography	3	3-0
RADTEC 10526159	Radiographic Imaging 1	3	3-0
RADTEC 10526168	Radiography Clinical 1	2	0-0
MATH 10804107	College Mathematics	3	2-2
Second Semester			
RADTEC 10526170	Radiographic Imaging 2	3	3-0
RADTEC 10526191	Radiographic Procedures 2	5	5-0
RADTEC 10526192	Radiography Clinical 2	3	0-0
ENGLISH 10801195	Written Communication	3	3-0
Third Semester (Summer)		
RADTEC 10526193	Radiography Clinical 3	3	0-0
Fourth Semester			
RADTEC 10526194	Imaging Equipment Operation	3	3-0
RADTEC 10526195	Radiographic Quality Analysis	2	2-0
RADTEC 10526196	Modalities	3	3-0
RADTEC 10526199	Radiography Clinical 4	3	0-0
COMM 10801196	Oral/Interpersonal Communication	3	3-0
PSYCH 20809231	Intro Psychology	3	3-0
Fifth Semester			
RADTEC 10526189	Radiographic Pathology	1	1-0
RADTEC 10526190	Radiography Clinical 5	2	0-0
RADTEC 10526197	Radiation Protection & Biology	3	3-0
SOC 10809197	Contemporary American Society	3	3-0
PSYCH 20809233	Developmental Psychology	3	3-0
Sixth Semester (Summer)		
RADTEC 10526174	ARRT Certification Seminar	2	0-0
RADTEC 10526198	Radiography Clinical 6	2	0-0
-			



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Real Estate Sales

Program Number: 901942CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5	
RLEST 10194182	Real Estate Law	4	4-0	
RLEST 10194185	Real Estate Brokerage	4	4-0	
Second Semester				
MKTG 10104102	Marketing Principles	3	3-0	
MKTG 10104104	Selling Principles	3	3-0	
MKTG 10104114	Social Media Principles	3	3-0	
Third Semester				
RLEST 10194195	Real Estate Internship	3	1-0	



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Recreation Management

Program Number: 101094

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
RECMGT 10109103	Leisure and Lifestyle	3	3-0	
RECMGT 10109162	Introduction to Recreation	2	2-0	
COMPSOFT 10103133	Excel - Beginning	1	0.27-1.5	
MKTG 10104102	Marketing Principles	3	3-0	
ENGLISH 10801195	Written Communication	3	3-0	
MATH 10804123	Math with Business Applications	3	3-0	
Second Semester		_		
RECMGT 10109106	Recreation Programming	3	3-0	
RECMGT 10109149	Risk Management in Recreation	2	2-0	
RECMGT 10109171	Internship Development and Community Partnerships	2	2-0	
COMM 10801196	Oral/Interpersonal Communication	3	3-0	
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0	
	Emphasis Area Course (see below)	3		
Third Semester (Summe		0	0.0	
RECMGT 10109175	Recreation Internship Practicum	2	0-0	
Fourth Semester		_		
RECMGT 10109135	Leadership Strategies in Recreation	3	3-0	
RECMGT 10109163	Trends and Topics in Recreation	3	3-0	
RECMGT 10109195	Recreation Industry Budget and Financial Management	3	3-0	
SOC 10809197	Contemporary American Society	3	3-0	
PSYCH 10809199	Psychology Of Human Relations	3	3-0	
	Emphasis Area Course (see below)	3		
Fifth Semester				
RECMGT 10109115	Recreation Administration & Management	3	3-0	
RECMGT 10109155	Facility Operations and Maintenance	3	3-0	
RECMGT 10109160	Inclusive Recreation	3	3-0	
RECMGT 10109190	Recreation Seminar	1	1-0	
ECON 10809195	Economics	3	3-0	
	Emphasis Area Course (see below)	3		
Activity/Fitness Emphas				
RECMGT 10109159	Wellness Coaching and Promotion	3	3-0	
RECMGT 10109173	Group Fitness Development	3	2-2	
RECMGT 10109176	Personal Trainer Development	3	1-4	
RECMGT 10109189	Foundations of Worksite Wellness	3	3-0	
If choosing to take Body S for Exercises Lab:	Structure and Function, students must also complete Anatom	y & Physiology		
MEDTERM 10501153	Body Structure & Function - Used in a variety of Degree	3	3-0	
	Body Structure a randion Soca in a valiety of Degree	0	00	



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	Programs			
BIOLOGY 20806262	Anatomy and Physiology for Exercise Lab	1	0-2	
Outdoor Education Em	a hadia			
Outdoor Education Err	ipnasis			
RECMGT 10109196	Principles of Outdoor Pursuits	3	3-0	
RECMGT 10109197	Challenge Course Programming	3	3-0	
Choose from one of the	following two courses:			
RECMGT 10109199	Adventure Processing and Facilitation	3	3-0	
BIOLOGY 20806280	Environmental Issues	3	3-0	



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Real world smart.

Program Number: 904802CERT

Renewable Energy

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Choose at least 6 credit	s from among these Core courses:		
PHYSICS 20806291	Introduction to Renewable Energy	3	3-0
ECON 20809269	Energy And Society	3	3-0
ENERCONS 10481110	Energy Management	3	2-2
CHEM 20806290	Renewable Energy for International Development	3	3-0
	s from among these Intermediate courses:		
RENEWELC 10482101	Introduction to Wind Energy Technology	3	1-4
BIOFUELS 10484120	Introduction to Biofuels	2	1-2
RENEWELC 10482138	Introduction to Photovoltaic Technology	2	2-0
BIOFUELS 10484160	Introduction to Biomass Energy (Online)	3	3-0
Choose additional credi	ts from the following courses to reach a total of 12 cred	its:	
IND MECH 10462320	DC/AC Circuits	3	0-6
RENEWELC 10482103	Photovoltaic Systems and the National Electric Code	1	1-0
RENEWELC 10482135	Advanced Photovoltaic Electives	3	3-0
RENEWELC 10482137	Photovoltaic Site Assessment	1	1-0
RENEWELC 10482140	Grid Connected Photovoltaic System Design	1	1-0
RENEWELC 10482141	Grid Connected Photovoltaic Systems Installation Lab	1	0-2
RENEWELC 10482142	Off Grid Photovoltaic System Design	1	1-0
RENEWELC 10482143	Off Grid Photo Systems Installation Lab	1	0.5-1
RENEWELC 10482149	Photovoltaic Technical Sales	1	1-0
RENEWELC 10482102	Wind Systems Technician 1	3	1-4
RENEWELC 10482152	Wind Systems Repair and Maintenance	2	2-0
RENEWELC 10482153	Wind Turbine Installation	2	0.5-1
RENEWELC 10482154	Advanced Wind Systems Electives	3	3-0
RENEWELC 10482156	Wind Turbine Design and Construction	3	1.5-3
BIOFUELS 10484121	Introduction to Ethanol Fuel	1	1-0
BIOFUELS 10484130	Introduction to Biodiesel Fuel	1	1-0
BIOFUELS 10484161	Anaerobic Digestion and Biogas Technology	1	1-0
GLBL ED 10140112	Renewable Energy for the Developing World	3	3-0



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Program Number: 105151

Respiratory Therapist

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
RESPC 10515111	Respiratory Survey	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
MEDTERM 10501101	Medical Terminology	3	3-0
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
CHEM 10806134	General Chemistry	4	3-2
Second Semester			
Choose from Microbiology			
BIOLOGY 20806273	Microbiology-University Medical	5	3-4
BIOLOGY 20806274	General Microbiology	5	3-4
RESPC 10515171	Respiratory Therapeutics1	3	2-2
RESPC 10515172	Respiratory Therapeutics 2	3	2-2
RESPC 10515173	Respiratory Pharmacology	3	3-0
RESPC 10515174	Respiratory/Cardiac Physiology	3	3-0
Third Semester (Summe	r)		
RESPC 10515175	Respiratory Clinical 1	2	0-0
SPEECH 10801198	Speech	3	3-0
Fourth Semester			
RESPC 10515176	Respiratory Disease	3	3-0
RESPC 10515112	Respiratory Airway Management	2	1-2
RESPC 10515113	Respiratory Life Support	3	2-2
RESPC 10515178	Respiratory Clinical 2	3	0-0
RESPC 10515179	Respiratory Clinical 3	3	0-0
SOC 10809197	Contemporary Amer Society	3	3-0
Fifth Semester			
RESPC 10515180	Respiratory Neo/Peds Care	2	2-0
RESPC 10515181	Respiratory/Cardio Diagnostics	3	2-2
RESPC 10515182	Respiratory Clinical 4	3	0-0
RESPC 10515183	Respiratory Clinical 5	3	0-0
RESPC 10515184	Neonatal Pediatric Resuscitation (NRP)	1	1-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0



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Effective: 2016-2017

Retail Management

Program Number: 901044CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Hrs/Week	
		Credits/Units	LEC-LAB
Courses			
FSHNMKTG 10104124	Retail Management	3	3-0
SUPDEV 10196191	Principles of Supervision	3	3-0
FSHNMKTG 10104123	Merchandise Plan/Control	3	3-0
FSHNMKTG 10104194	Visual Merchandising	3	2-2



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Risk Management & Insurance

Program Number: 901621CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
INSMGT 10162125	Intro to Business Insurance Contracts (AAI 82)	3	3-0
INSMGT 10162126	Introduction to Loss Investigaton (AIC 33)	3	3-0
INSMGT 10162131	Introduction to Employee Benefits	1	1-0
INSMGT 10162133	Managing Business Risks	3	3-0
INSMGT 10162135	Detecting Employee Fraud	3	3-0
INSMGT 10162140	Risk Management and Insurance Internship	2	0-0



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Effective: 2016-2017

Sales Academy

Program Number: 901042CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
MKTG 10104104	Selling Principles	3	3-0
FSHNMKTG 10104124	Retail Management	3	3-0
MKTG 10104160	Sales Management	3	3-0



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Sheet Metal Construction

Program Number: 504321

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester SHEETMTL 50432571	Tech Sheet Metal Semester 1	4	6-2	
Second Semester SHEETMTL 50432572	Tech Sheet Metal Semester 2	4	6-2	
Third Semester SHEETMTL 50432573	Tech Sheet Metal Semester 3	4	6-2	
Fourth Semester SHEETMTL 50432574	Tech Sheet Metal Semester 4	4	6-2	



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Small Business Entrepreneurship

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
SMLBUS 10145105	Operations Management	3	3-0
SMLBUS 10145106	Small Business Marketing	3	3-0
SMLBUS 10145117	Introduction to Entrepreneurship	3	3-0
SMLBUS 10145185	Customer Service Management	3	3-0
MATH 10804123	Math with Business Applications	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
Second Semester			
ACCTG 10101106	Accounting Fundamentals	3	3-0
MKTG 10104104	Selling Principles	3	3-0
SMLBUS 10145102	Small Business Development	3	3-0
SMLBUS 10145108	Field Experience	2	1-0
SUPDEV 10196191	Principles of Supervision	3	3-0
	Required Technical Course Selection		
Technical Course Select	tion Options		
BUSADM 10102160	Business Law 1	3	3-0
COMPSOFT 10104111	Innovative Trends in Marketing	3	3-0
MKTG 10104111	Innovative Trends in Marketing	3	3-0
MKTG 10104114	Social Media Principles	3	3-0
FSHNMKTG 10104118	Store Operations	3	1-0
MKTG 10104169	Internet Marketing	3	3-0
MKTG 10104180	Global Marketing	3	3-0



Effective: 2016-2017

Program Number: 311451

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Social Media

Program Number: 902012CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Three Required Course	es		
MKTG 10104114	Social Media Principles	3	3-0
GRDSGN 10201198	Social Media/Web Design Strategies	3	3-0
JOURNAL 20801262	Social Media Writing	3	3-0
Student must also comp	lete at lease one course (minimum 3 credits) in the fo	-	
		-	
Student must also comp MKTG 10104115	Capstone Campaign	ollowing electives: 3 3	3-0 3-0
Student must also comp MKTG 10104115 MKTG 10104162		3	
	Capstone Campaign Mobile Marketing (Social Media)	3	3-0



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Program Number: 504353

Steamfitting-Construction Apprentice

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester STEAM 50435530	Sf Rel Sci/Math/Bpr/Drawing	4	6-2
Second Semester STEAM 50435531	Sf Refrig/Math Bpr/Drawing	4	6-2
Third Semester STEAM 50435532	Hydronic Prin/Math/Bpr/Draw	4	6-2
Fourth Semester STEAM 50435533	Steam Heat Prin/Math/Bpr/Draw	4	6-2
Fifth Semester STEAM 50435534	Sf Digital Cntr Sys/Comptr Apl	2	3-1



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Stem Cell Technologies

Program Number: 900073CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
BIOTECH 10007118	Introduction to Human Stem Cell Concepts	1	1-0
BIOTECH 10007116	Introduction to Human Stem Cell Methods	3	0-6
Second Semester			
BIOTECH 10007119	Advanced Human Stem Cell Concepts	1	1-0
BIOTECH 10007117	Advanced Human Stem Cell Methods	3	0-6



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Supporting Children's Learning

Program Number: 805222

Advanced Technical Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
EDSVC 10522102	EDU: Techniques for Reading and Language Arts	3	1-4
EDSVC 10522111	EDU: Guiding and Managing Behavior	3	2-2
EDSVC 10522120	EDU: Techniques for Science	3	1-4



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Surgical Technologist

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Pre-Surgical Technolo	gist Courses		
	two General Anatomy & Physiology courses or Anatomy	and Physiology 1 &	
2: BIOLOGY 10806177	Gen Anatomy & Physiology	4	3-2
BIOLOGY 20806206	General Anatomy and Physiology	4	3-2
BIOLOGY 20806207	Anatomy and Physiology 1	4	3-2
BIOLOGY 20806208	Anatomy and Physiology 2	4	3-2
MEDTERM 10501101	Medical Terminology	3	3-0
ENGLISH 10801195	Written Communication	3	3-0
SURGT 31512317	Surgical Technologist Functional Microbiology	1	2-0
First Semester			
SURGT 31512327	ST: Introduction	4	6-2
SURGT 31512328	ST: Fundamentals 1	4	6-2
SURGT 31512329	ST: Fundamentals 2	2	2-2
SURGT 31512330	ST: Clinical 1	3	0-0
Second Semester			
SURGT 31512331	ST: Surgical Procedures	4	8-0
SURGT 31512332	ST: Clinical 2	4	0-0
SURGT 31512334	ST: Clinical 3	4	0-0



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Technical Studies Journey Worker

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

	Credits/Units	Hrs/Week LEC-LAB
Coursework Required for Degree		
Occupational Specific Courses (39 credits) The Occupational Specific Course area is met by a Wisconsin Apprenticeship issued by the Department of Workforce Development-Bureau of Apprenticeship program which included a minimum of 400 hours of prescribed apprentice rela Wisconsin Technical College System. General Education (21 credits) General Education courses must meet the WTCS Associate of Applied Science for a minimum of 21 credits of General Education distributed across the follow Communications	ip Standards registered ted instruction in the e Degree requirement	
Social Science	3	
Behavioral Science	3	
Math and/or Science	3	
Additional General Education	6	



Effective: 2016-2017

Program Number: 104995

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Telecommunications Voice Data Video Installer Technician

Program Number: 504512

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

	Credits/Units	Hrs/Week LEC-LAB
Voice Data Video Install Sem 1	2	3.39-0.56
Voice Data Video Install Sem 2	2	3.39-0.56
Voice Data Video Install Sem 3	2	3.39-0.56
Voice Data Video Install Sem 4	2	3.39-0.56
Voice Data Video Install Sem 5	2	3.39-0.56
Voice Data Video Install Sem 6	2	3.39-0.56
	Voice Data Video Install Sem 2 Voice Data Video Install Sem 3 Voice Data Video Install Sem 4 Voice Data Video Install Sem 5	Voice Data Video Install Sem 12Voice Data Video Install Sem 22Voice Data Video Install Sem 32Voice Data Video Install Sem 42Voice Data Video Install Sem 52



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Therapeutic Massage

Program Number: 315371

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
MEDTERM 10501153	Body Structure & Function - Used in a variety of Degree Programs	3	3-0	
THERMASS 10537136	Musculoskeletal Anatomy for the Massage Therapist	4	3-2	
THERMASS 31537340	Therapeutic Massage 1	4	2.44-5.55	
THERMASS 31537342	Therapeutic Massage 2	4	2.44-5.55	
Second Semester				
THERMASS 10537138	Kinesiology for the Massage Therapist	2	2-0	
THERMASS 10537139	Pathology and Medical Terminology for the Massage Therapist	3	3-0	
THERMASS 31537344	Specialized Techniques for Therapeutic Massage	4	2-6	
THERMASS 31537346	Therapeutic Massage Clinic and Business Practices	4	2-6	



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Tool & Die Apprentice

Program Number: 504393

Apprenticeship Completion

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Ur	Hrs/Week hits LEC-LAB
First Semester T&D 50439593	Tech T & D Sem 1	2	3-1
Second Semester T&D 50439594	Tech T & D Sem 2	2	3-1
Third Semester T&D 50439596	Tech T & D Sem 3	2	3-1
Fourth Semester T&D 50439597	Tech T & D Sem 4	2	3-1
Fifth Semester T&D 50439598	Tech T & D Sem 5	2	3-1
Sixth Semester T&D 50439599	Tech T & D Sem 6	2	3-1
Seventh Semester T&D 50439589	Tech T & D Sem 7	2	3-1
Eighth Semester T&D 50439591	Tech T & D Sem 8	2	3-1



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Veterinary Technician

Program Number: 100911

Associate in Applied Science

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
ANHUSB 10091105	Occupational Preparation	1	1-0
ANHUSB 10091123	Lab Animal Science 1	2	1-0
ANHUSB 10091170	Veterinary Medical Terminology - Veterinary Technician Program	2	2-0
ANHUSB 10091171	Animal Care and Management 1	3	2-0
ENGLISH 10801195	Written Communication	3	3-0
BIOLOGY 10806105	Principles of Animal Biology	4	3-2
Second Semester			
ANHUSB 10091107	Animal Disease 1	2	2-0
ANHUSB 10091109	Pharmacology 1 - Animals	2	1-2
ANHUSB 10091120	Veterinary Clinical Pathology 1	3	1-4
ANHUSB 10091131	Veterinary Office Procedures 1	1	1-0
ANHUSB 10091172	Animal Care And Management 2	3	2-0
CHEM 10806178	Life Science Chemistry	5	4-2
Third Semester (summ			
ANHUSB 10091158	Internship - Veterinary Technician Program	4	0-0
Fourth Semester			
ANHUSB 10091108	Animal Disease 2	2	2-0
ANHUSB 10091124	Veterinary Clinical Pathology 2	3	2-0
ANHUSB 10091127	Surgical Nursing 1	3	2-0
ANHUSB 10091128	Animal Nursing 1	2	1-0
ANHUSB 10091132	Veterinary Office Procedures 2	1	0-2
ANHUSB 10091140	Animal Anatomy & Physiology 1	3	1-4
COMM 10801196	Oral/Interpersonal Communication	3	3-0
Fifth Semester			
ANHUSB 10091110	Pharmacology 2	2	2-0
ANHUSB 10091121	Veterinary Clinical Pathology 3	3	1-4
ANHUSB 10091122	Advanced Topics in Veterinary Medicine	1	1-0
ANHUSB 10091152	Surgical Nursing 2	3	2-0
ANHUSB 10091153	Diagnostic Imaging	3	2-0
SOC 10809197	Contemporary Amer Society	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0



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Video Production

Program Number: 902061CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB	
First Semester				
VICOM 10206131	Sound Production Techniques	3	0-6	
VICOM 10206143	Digital Story Telling	3	0-6	
VICOM 10206148	Lighting Techniques for Video Production	2	0-4	
Second Semester				
VICOM 10206129	Motion Graphics	3	0-6	
	Selective (see below)	2		
Selectives				
VICOM 10206147	Introduction to DSLR Video Production	2	0-4	
VICOM 10206160	Business and the Visual Arts	2	0-4	



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Program Number: 102061

An Associate in Applied Arts D

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
GRDSGN 10201181	Introduction to Computer Graphics	3	0-6
PHOTO 10203130	Intro Digital Photography	2	0-4
VICOM 10206107	Presentation Design	2	0-4
VICOM 10206108	Visual Storytelling Techniques	2	0-4
VICOM 10206133	Interface Design	2	0-4
ENGLISH 10801195	Written Communication	3	3-0
PSYCH 10809199	Psychology Of Human Relations	3	3-0
		-	
Second Semester			
GRDSGN 10201177	WebPage Design	3	0-6
VICOM 10206105	Communication Design	3	0-6
VICOM 10206130	Video Production	3	0-6
VICOM 10206131	Sound Production Techniques	3	0-6
VICOM 10206161	Production Management	1	0.5-1
VICOM 10206180	Advanced Media	3	0-6
COMM 10801196	Oral/Interpersonal Communication	3	3-0
Third Semester			
VICOM 10206142	Digital Video Production and Editing	3	0-6
VICOM 10206135	Multi-Media Presentations	3	0-6
VICOM 10206160	Business and the Visual Arts	2	0-4
ENGLISH 10801197	Technical Reporting	3	3-0
PHILOS 10809166	Intro to Ethics: Theory & App	3	3-0
SOC 10809197	Contemporary Amer Society	3	3-0
Fourth Semester	Instructional Madia Custome	0	0.0
VICOM 10206125	Instructional Media Systems	3	0-6
VICOM 10206129	Motion Graphics	3	0-6
VICOM 10206110	Introduction to 3D	3	0-6
VICOM 10206140	Portfolio Preparation - Visual Communication Program	2	0-4
MATH 10804123	Math with Business Applications	3	3-0



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Webpage Design

Program Number: 902011CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
GRDSGN 10201155	WordPress for Designers	3	2-2
GRDSGN 10201178	Web Animated Visual Effects	3	0-6
GRDSGN 10201189	Web Design Project Management	2	0-4
GRDSGN 10201195	Advanced Web Page Design	3	0-6
GRDSGN 10201198	Social Media/Web Design Strategies	3	3-0
VICOM 10206190	Advanced Interactive Media	2	0-4



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Program Number: 314421

Welding

A One Year Technical Diploma

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
First Semester			
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
WELD 31442312	Oxy Fuel Welding and Thermal Cutting	2	2-2
WELD 31442314	Arc Welding Theory	2	4-0
WELD 31442315	Basic Arc (SMAW)	2	0-4
WELD 31442318	Gas Tungsten Arc Welding 1 (GTAW/TIG)	2	0-4
WELD 31442323	Basic Gas Metal Arc Welding (GMAW/MIG)	2	2-2
MTLFAB 31457301	Fabrication 1	2	1-3
MATH 31804379	Vocational Math 1	1	2-0
Second Semester			
INDMANUF 10623100	Safety for Industry	1	0-2
WELD 31442320	Welding Occupational Development	1	2-0
WELD 31442321	Arc Welding (SMAW) Vertical	2	2-2
WELD 31442322	Advanced Welding Techniques	2	2-2
WELD 31442326	Flux Cored & Advanced Gas Metal Arc Welding (FCAW/GMAW)	2	1-3
WELD 31442328	Gas Tungsten Árc Welding 2 (GTAW/TIG)	2	1-3
WELD 31442390	Fundamentals of Metallurgy	2	4-0
MTLFAB 31457302	Fabrication 2	2	1-3



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Wind Energy Technology

Program Number: 904624CERT

Certificate

Curriculum

The courses listed below outline the requirements for completion for students officially admitted in the 2016-2017 academic year. Requirements for completion may vary depending on the semester in which a student is admitted. Current/continuing students should consult their Academic Requirements report available through their student center account for specific requirements, as requirements are subject to change.

		Credits/Units	Hrs/Week LEC-LAB
Courses			
IND MECH 10462320	DC/AC Circuits	3	0-6
RENEWELC 10482101	Introduction to Wind Energy Technology	3	1-4
RENEWELC 10482102	Wind Systems Technician 1	3	1-4
RENEWELC 10482153	Wind Turbine Installation	1	0.5-1
INDMANUF 10623100	Safety for Industry	1	0-2
INDMANUF 10623200	Interpreting Engineering Drawings	2	0-4
IND MECH 32462303	Industrial Equipment Mechanisms 1	1	1-1
IND MECH 32462306	Industrial Fluid Power 1	1	1-1
IND MECH 10462322	Industrial Electricity and Controls	4	0-8



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Degree Credit Course Descriptions

803 20803221 804 10804196

Trigonometry w Apps

Intro to Buddhism

Hist West Civ 2

Topics include circular functions, graphing of trigonometry functions, identities, equations, trigonometric functions of angles, inverse functions, solutions of triangle, complex numbers, DeMoivre's Theorem, polar coordinates, and vectors.

809 20809278

Focuses on Buddhism and the diverse Asian cultures with which it engages from its Indian inception and original encounter with Hindu and Jain traditions to it's Chinese (including Japan et. al.) encounter with Daoism and Confucianism. Finally, Tibetan (including Mongolian et. al.) developments and development of Tantric tradition will be addressed along with the emergence of Buddhism in the West. This course will encompass not only intellectual but artistic, social and historical developments. Students will acquire factual knowledge through formative assessments such as on-line quizzes, peer-to-peer review and in-class debates leading to four summative assessment midterms. Students will be able to synthesize diverse data through a research project developed through an outline, paper and final documentary project.

ACCTG 10101106

Accounting Fundamentals Surveys accounting principles and practices with an emphasis on interpretation, rather than preparation, of financial statements.

Accounting 1 - Principles

Accounting 2 - Principles

Management Accounting

Accounting 3-Intermediate

Presents basic business terminology, cash basis and accrual basis accounting, ratio analysis, payroll, and budgeting. This class is not for students majoring in accounting.

ACCTG 10101111

Introduction to the field of accounting. The accounting cycle of journalizing transactions, posting, adjusting and closing entries, as well as the preparation of accounting statements is emphasized for service industries and merchandising concerns. Details of accounting for cash and receivables are studied. An introduction to a computerized accounting system is also included.

ACCTG 10101113

Procedures of accounting for partnerships and corporations. Additional topics include fixed assets, current liabilities and payroll, long-term liabilities, investments, statement of cash flows, analysis of financial statements, and an introduction to cost accounting.

ACCTG 10101118

Emphasizes the managerial use of accounting reports, the problem-solving functions of accounting in relation to current planning and control, performance evaluation, long-range planning, budgets and cost-volume-profit relationships.

ACCTG 10101121

This intermediate-level course builds on the material covered in the Accounting Principles-1 and -2 courses. It expands on earlier coverage of both the income statement and balance sheet. Revenue recognition concepts and methods are covered. Emphasis is also placed on each classification of asset. This emphasis includes in-depth coverage of cash, receivables and inventory. Coverage also includes operational asset acquisition, depreciation, and disposal. Present value concepts are studied and applied. Excel spreadsheet software is used in this course.

ACCTG 10101122

Accounting 4-Intermediate

Tax 1

Emphasizes analysis of financial statements. Generally accepted accounting principles are applied in the preparation, analysis and interpretation of financial statements. Particular emphasis is applied to valuation of current and long-term liabilities and stockholders' equity, and earnings per share. Special topics included are deferred income taxes, long-term investments, and leases. Further consideration is applied to errors and their correction, and statements of cash flow. Comparison and analysis is also made between GAAP and international standards(IFRS).

ACCTG 10101123

Introduction to federal and state income tax laws with an emphasis on personal taxes. These areas are included: filing status, personal exemptions and standard deductions; income recognition, itemized deductions, credits, depreciation, gains and losses, and sole proprietorship taxation. The course also requires the preparation of a series of individual income tax returns.

ACCTG 10101125

This course presents typical accounting methods and processes that are used for collecting information for effective decision making for both manufacturing and service environments. Areas emphasized include job order costing, process costing, standard costing, activity based costing, budgeting, cost allocations, cost-volume-profit analysis and capital investment analysis. Students will be required to prepare and analyze various management reports.

ACCTG 10101137

Computerized Accounting Applications

Provides practical experience developing and applying flexible solutions to accounting problems using Excel. Spreadsheet tools that will be utilized include financial, lookup, and database functions; logical statements (IF); goal seek; pivot tables; and macros.



Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

2 Credits/Units

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Cost Management

ACCTG 10101138

Accounting And Payroll Systems

A survey of accounting and payroll systems covering procedures and methods to capture data and report financial information. Specific topics include flowcharting, internal controls, and transaction work in both manual and computerized environments. Special emphasis is also placed on payroll calculations and the processing of payroll information. Lab intensive course involving hands-on experience with Excel spreadsheet software and accounting software.

ACCTG 10101139

QuickBooks-Beginning Introduction to QuickBooks-Beginning small business accounting software. Students become familiar with QuickBooks features and learn to use the software to set up a new company, manage business revenue and expenses, process payroll, reconcile bank accounts, track inventory and create useful reports. A tutorial approach will be followed using a textbook and practice problem templates. Prerequisites:

(1) Course work or experience in Microsoft Windows and using email is required.

(2) Accounting program students should take this course the second half of the semester they take 10-101-111 Accounting 1-Principles (or they may take it in a semester after they have completed Accounting-Principles). (Non-program students working in the accounting field or with small business management experience should obtain permission from the instructor to register, and take the course in a section during the first half of a semester.

ACCTG 10101141

QuickBooks-Intermediate

Accounting Capstone

QuickBooks-Intermediate is the next course offering after QuickBooks-Beginning which provides student users with in-depth material on advanced topics. Topics will include inventory; Sales Tax; Time Tracking; Payroll Setup and Processing; Estimates and Sales Orders; Budgeting, Forecasting & Business Planning; and Adjustments and Year-End Procedures. A tutorial approach will be followed using a textbook and practice problem company files.

ACCTG 10101142

This course will provide students an opportunity to demonstrate their attainment of program outcomes through the completion of a project. This project accounts for a small business through the accounting cycle, review of internal controls, and financial analysis.

ACCTG 10101154

Pavroll Accounting This course introduces the student to the many aspects of payroll accounting, administration, and management. The course is intended for accounting students, other business students and outside professionals who have a need or interest in understanding the laws and regulations, the calculations (including all payroll taxes), the government reporting and the accounting entries related to the payroll function.

ADMINPRF 10106101

Keyboarding Introduction

Learn computer keyboarding (alphabetic and numeric keypad) using proper technique; develop speed and accuracy.

Introduction to Office Professions

ADMINPRF 10106102

Explore the Administrative Professional and Office Specialist programs! Discover the knowledge, attitudes, and skills necessary to succeed personally and professionally in this career field. Experience an office environment by connecting with a mentor at his or her job site. Additional topics include career success, campus resources, skills portfolio, core workplace skills, internship requirements, professional organizations, personality traits, values and work environment preferences, and self-assessment of present career skills. (Formerly called Professional Profile)

ADMINPRF 10106106

Business Writing and Research

Business Document Applications

Apply effective writing strategies to compose employment-related correspondence including business letters, memos, informal reports, and formal reports. Lessons will include the development of using correct-order writing plans as well as the practice of appropriate tone, etiquette, and style. Students will apply writing, researching, and critical thinking skills in the context of real business writing scenarios. Reinforcement of grammar, punctuation, and proofreading will be integrated throughout the course.

ADMINPRF 10106107

Emphasis is placed on learning to use Microsoft Word software to efficiently and effectively produce business documents. Students will apply Word skills to solve practical problems in a project-based format. Explore fundamentals and best practices in document creation, editing, formatting, collaboration, tables, mail merge, desktop publishing, themes, templates, forms, and macros. Recommended prerequisites: Windows competency, including solid file management skills; ability to key 30 WPM. Equipment requirements: Access to a PC Windows platform computer and Microsoft Office 2016 or Office 365, including Word, PowerPoint, Excel, Outlook, Access, and Publisher.

ADMINPRF 10106108

Proofreading And Editing 3 Credits/Units Review the parts of speech and basic grammar. Develop proofreading skills including punctuation, grammar, spelling, and usage errors. Edit business documents for appropriate content and clarity.

ADMINPRF 10106109

Business Spreadsheet Applications

3 Credits/Units

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Effective: 2016-2017

3 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

Real world smart.

Madison Area Technical College

Create professional data-driven workbooks utilizing Microsoft Office Excel spreadsheet software. Create charts and complex formulas; utilize advanced functions and apply conditional formatting; work with multiple worksheet, workbooks, and templates; develop an Excel application with data validation, worksheet protection, and macros; work with financial tools and functions; perform what-if analysis with Scenario Manager, Data Tables, and Solver. Recommended prerequisite: Windows competency, including solid file management skills

ADMINPRF 10106133

Document Formatting

Software Projects

Apply industry-standard format to business correspondence including memorandums, business letters, and publications. Format tables, design multicolumn documents, generate fillable forms, use SmartArt, and apply graphics.

ADMINPRF 10106134

This is a capstone course for the Administrative Professional and Medical Administrative Specialist programs. This course is based upon prior knowledge students learned in previous courses and uses multiple software applications, including but not limited to Microsoft Word, Excel, PowerPoint, and Access. Students manage information, apply critical- thinking skills to solve problems, research topics, and compose business documents, spreadsheets, databases, and presentations.

ADMINPRF 10106139

Keyboard Skillbuilding

Refine keyboarding technique, increase speed, and improve accuracy through individualized practice. The student must be able to touch type, which is defined as using the correct key reaches and not looking at the keys while typing, at a minimum rate of 25 words per minute. Equipment requirement: Access to Internet.

ADMINPRF 10106164

Customer Contact Skills

Find ways to deliver outstanding customer service. Improve verbal, nonverbal, and listening communication skills; develop problemsolving techniques to deal with a variety of customers; and find ways to add value to the customer interaction. Examine how technology impacts customer service, review how service breakdowns occur and how to recover, and develop campaigns for building customer loyalty.

ADMINPRF 10106165 Medical Administrative Procedures

This class is designed to emphasize administrative procedures in the electronic medical office environment. Using an electronic practice management program, students learn to enter patient information, schedule appointments, complete patient billing and reimbursement, create insurance claims, post insurance payments, create patient statements, and run financial and clinical reports. Other topics include telephone procedures, introduction of diagnostic and procedural coding, diversity in healthcare, effective business meetings, travel arrangements and itineraries, and qualities of a successful healthcare professional.

ADMINPRF 10106166

Healthcare Documentation Techniques and Procedures

Emphasizes the skilled proofreading, editing (including detailed coverage of grammar and punctuation), formatting and reference use techniques needed to produce high quality reports demanded by medical facilities.

ADMINPRF 10106172

Administrative Office Management

This course emphasizes the skills necessary to succeed in a global business office in the 21st century. Topics include: teamwork and interpersonal skills, travel arrangements, meetings, minute taking, online survey creation, parliamentary procedure, management and leadership skills, cultural diversity, and time, stress and anger management.

ADMINPRF 10106177

Specialized Insurance Claims

Identifies in-depth insurance knowledge for private and government insurance programs including indemnity, HMO, PPO, Medicare, medical Assistance, third party liability, worker's compensation, etc. Covers knowledge of deductibles, coinsurance, copayments, exclusions, medical necessity, referrals, prior authorization, coordination of benefits, COBRA, charity Care, collections, pre-existing periods, allowed amounts, malpractice, dental, inpatient and outpatient benefits, and lifetime maximums. Claims reimbursement methods, contractual allowances, fee schedules, and other rules to facilitate timely payment of claims are also incorporated.

ADMINPRF 10106178

Medical Language for the Business Professional 1 This course is designed to give the beginning business student an insight into medical language. Students will explore how medical terms are formed, become familiar with the meaning of many word roots, prefixes, and suffixes, and spell, define, and pronounce many medical terms by understanding word components. Students will also exhibit mastery in the use of medical dictionaries and reference materials. Fundamentals will be discussed as they relate to evaluation of health practices by body system and by the body as a whole.

ADMINPRF 10106179

Medical Language for the Business Professional 2

This course is a continuation of Medical Language for the Business Professional 1 and is designed to give the business student continued insight into medical language. Students will continue exploration of medical terms, become familiar with the meaning of many word roots, prefixes, and suffixes, and spell, define, and pronounce many medical terms by understanding word components. Students will also exhibit mastery in the use of medical dictionaries and reference materials. Fundamentals will be discussed as they relate to evaluation of health practices by body system and by the body as a whole.

ADMINPRF 10106182

Information Technology Concepts

3 Credits/Units

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3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units



Effective: 2016-2017

2 Credits/Units

2 Credits/Units

1 Credits/Units

Learn about the most-up-to-date technology in an ever-changing world. Students will gain an in-depth understanding of why computers are essential in business and society, and learn the fundamentals and terms associated with computers and mobile devices, the Internet, networks, programs and apps, cloud computing, digital safety, IT ethics and security while using available technologies including video conferencing.

Introduction to Project Management

ADMINPRF 10106186

Plan and coordinate projects, develop timelines, determine priorities, allocate resources using graphic tools such as MS Project or MS Excel software, and increase individual and team productivity. Project management techniques and concepts are learned by participating in a team project and completing a personal project plan. Student should be in the last semester of the program OR enrolled in the Project Management for the Office Professional certificate.

ADMINPRF 10106190

Build an electronic portfolio by creating a resume, cover letter, and thank you letters. Enhance skills in interviewing, requesting references, and networking.

ADMINPRF 10106191 Introduction to Healthcare Documentation 2 Credits/Units This course provides an introduction to healthcare documentation practices and develops a working knowledge of basic document, medical language, and medical report formats. The student will develop technology, medical knowledge, English language,

Professional Development

proofreading, editing, and research skills, achieving beginning production and accuracy standards.

Career Management ADMINPRF 10106194 1 Credits/Units Identify factors associated with job success: personal branding, employee benefits, ethics in the workplace, performance appraisals, proper etiquette, harassment, conflict resolution, and adopting change. NOTE: Recommended to have taken Written Communication (10-801-195) or Business Writing & Research; Student should be in last semester of the program

ADMINPRF 10106195

Administrative Specialist Students complete a 72-hour internship in an office setting supervised by a cooperating employer. The office setting is a business or medical office depending on the student's program. Students will correspond with the Instructor via video conferencing and written reports. Must be in the last semester before graduation.

Internship - Administrative Professional & Medical

ADMINPRF 10106231

Business Presentations and Publications Explore key graphic design principles and best practices for designing and presenting. Create professional business presentations

using Microsoft PowerPoint, Prezi, and/or other presentation software. Work with graphics, slide master, sound, video, charts, and tables. Add transitions, narration, and animation to enhance presentations. Explore desktop publishing using Adobe InDesign. Apply basic design principles by learning how to set type, add graphics, and place text. Develop eve-catching handouts, flyers, postcards, and posters. Prerequisite: Windows competency, including solid file management skills.

ADMINPRF 10106240

Business Information Management

Concentrates on the fundamentals of managing the record life cycle; rules for paper and electronic filing systems; charge-out procedures; retention schedules; transfer methods; control measurements; imaging systems and information security. Incorporates database skills including how to plan, create, and manage data; modify a database structure; relate tables; find, filter, query and sort data; create forms and reports; import, export, and link database properties.

AGMECH 10070150

This course will introduce students to GPS and how it works with agricultural machinery functionality. Basic GPS equipment guidance systems set-up, operation and diagnostics will be utilized. Types of GPS signals and their applications currently used on John Deere agricultural equipment will be covered.

AGMECH 10070175

The course covers the operation, power flow, diagnosis and servicing of collar shift, synchronized and power shift transmissions. The class also discusses the operation and service of wet and dry clutches differentials, planetary drive axles, P.T.O. drives and mechanical front wheel drives.

AGMECH 10070176

This class begins with a discussion of the laws of electricity as they relate to the operation of the charging, starting and lighting systems. Diagnostic testing and troubleshooting will be demonstrated on alternators, starters and lighting systems. Methods of repair will be demonstrated where methods are currently used at the dealerships.

AGMECH 10070177

Fuel Systems This course covers the theory of operation, construction and service of diesel engine fuel systems. Also reviewed are diesel engine compression, ignition, theory combustion, chamber design and procedures for installing, timing of fuel quantity for proper combustion. Electronic fuel delivery will be discussed as it relates to engine operation.

AGMECH 10070178

Implements 2

3 Credits/Units

3 Credits/Units

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Electrical Systems

Power Transmissions

Precision Farming (Ag Management Solutions)

3 Credits/Units

1 Credits/Units

2 Credits/Units

Effective: 2016-2017

1 Credits/Units

3 Credits/Units

1 Credits/Units

4 Credits/Units



Real world smart.

Madison Area Technical College

This course provides instruction in the theory of operation and service of the grain combine. Students will learn how the combine processes grain, the basic components, means of service and repair of the machine. Lab work is designed to provide students with hands-on experience on combines, grain platforms and corn heads. Service and adjustment activities include the cylinder, gear boxes and power transmission components.

AGMECH 10070181 Implements 1 4 Credits/Units This course provides instruction in the theory of operation, adjustment and service of planting equipment. Students will learn the operation and service of corn planters and grain drills. Emphasis is given to how the corn planter seed meters work and how the attachments operate. In addition, the course also provides information on the theory, operation, adjustment and service of forage harvesting machines. Machines covered include mower conditioners, square balers, round balers and forage harvesters. Bearings, clutches, U-joints and other power transmission components also are covered.

AGMECH 10070182 **Accessories & Electronics**

This course will introduce the student to the type and operation temperature, pressure and speed sensors. Students wil be introduced to the central control unit (CCU) and the hitch control unit (HCU). Students will be shown the procedure for recalling codes and transmission calibration procedures. This course will provide the electrical certification for John Deere Technicians.

AGMECH 10070183

This course introduces the student to the hydraulic systems found on 30 through 60 series John Deere Tractors. The component configuration and operational characteristics of these tractors will be introduced. Students will service and rebuild the radial piston pump, S.C.V. and other components of the hydraulic system. Students will follow the technical manual diagnostic procedures to troubleshoot hydraulic system problems found on these tractors.

AGMECH 10070184 Hydraulics 2 This course provides instruction on the 6, 7 and 8000 series John Deere tractors. The component configuration and operational characteristics of these tractors will be introduced. Students will service and rebuild the axial piston pumps, SCV's and other components of the hydraulic system. Students will follow the technical manual diagnostic procedures to check out and troubleshoot the hydraulic system.

AGMECH 10070187

Occupational Experience 1 - Agricultural Equipment Technology Program

Students receive on-the-job experience in the areas of implement repair and service. Areas covered include, but are not limited to, tillage, planting and hay harvesting machines. Students also will be exposed to the operation and function of the dealership service department. Prerequisite: second-semester standing.

AGMECH 10070188

Occupational Experience 2

Occupational Experience 3

Engine Repair Theory

Air Conditioning

Engine Repair

Hydraulics

Students receive on-the-job experience in the areas of combines, corn heads and grain platforms. Other areas covered include setup, tillage and planting equipment.

AGMECH 10070189

Students receive on-the-job experience in tractor engine repair, air conditioning, electrical, and hydraulic system troubleshooting. Other areas covered include service department operation, warranty work and customer contacts.

AGMECH 10070191

Study in this course will allow the student to develop a basic knowledge of combustion engine design and operation with the major emphasis on diesel engines. Experience in the course will provide the student with the skills and knowledge needed to diagnose. overhaul, maintain, adjust and repair engines found in agricultural machines and equipment.

AGMECH 10070193

This course covers the theory of operation, service and testing of air conditioning units used to cool and heat the operator's cab. Lab work consists of leak detecting, evacuation, charging component installations, electrical circuits and troubleshooting of systems. Air conditioning service certification tests are also given to students enrolled in this course.

AGMECH 10070195

Study in this course will allow the student to develop a basic knowledge of combustion engine design and operation with the major emphasis on diesel engines. Experience in the course will provide the student with the skills and knowledge needed to diagnose, overhaul, maintain, adjust and repair engines found in agricultural machines and equipment.

ANHUSB 10091105

Occupational Preparation This course acquaints new students with general competencies necessary to be employed as a veterinary and laboratory animal technician. Addresses the students' personal safety, health and stress management. Discusses memberships in professional organizations, certification, licensing and internship preparation. Briefly discusses animal loss and bereavement.

ANHUSB 10091107

Animal Disease 1

2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

4 Credits/Units

2 Credits/Units

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1 Credits/Units



Effective: 2016-2017

Covers etiology, symptoms, transmission, diagnosis, prevention and control of diseases that are transmissible from animals to humans as well as animals to animals. Reporting requirements and handling of diagnostic samples involving high-exposure diseases are also discussed.

ANHUSB 10091108

Covers etiology, symptoms, transmission, diagnosis, prevention and control of common diseases in a wide variety of animal species. Toxic plants and other substances, as well as reporting and monitoring of federally regulated diseases will also be discussed.

Animal Disease 2

Pharmacology 2

Pharmacology 1 - Animals

Veterinary Clinical Pathology 1

Veterinary Clinical Pathology 3

ANHUSB 10091109

Introduction to drugs and other substances used in veterinary medicine. Emphasizes drug usage, client education, measurement, administration, and safe storage of antiparasitics, antiinflammatories, antibiotics and nervous system drugs.

ANHUSB 10091110

Introduction to drugs and other substances used in veterinary medicine. Emphasizes drug usage, client education, measurement, administration, and safe storage of cardiac, respiratory, gastrointestinal, chemotherapy, ophthalmic and other drugs.

ANHUSB 10091120

Students are introduced to laboratory equipment, elementary laboratory procedures and the princiles of microscopy, parasitology, urine analyais, hematology and bacteriology.

ANHUSB 10091121

Continues to expand upon the principles, procedures and skills learned in Vet. Clinical Pathology 1 and 2, including hematology, parasitology, urine analysis, microbiology, cytology, mycology, virology, serology, immunology and blood chemistries. Will continue to expand upon the use of automated laboratory procedures for hematology and clinical chemistries.

ANHUSB 10091122

Advanced Topics in Veterinary Medicine

Current topics and advanced diagnostic procedures in veterinary medicine.

ANHUSB 10091123

This course includes the history of laboratory animal technology and laboratory animal uses. Emphasizes the Animal Welfare Act and other regulations pertaining to the care of laboratory animals. Covers laboratory animal husbandry in depth as students provide care and treatment for a colony of laboratory animals. Pre-requisites: 10-806-105, 10-091-170, 10-091-171 or concurrent enrollment in all of the above.

ANHUSB 10091124

Veterinary Clinical Pathology 2

Lab Animal Science 1

Surgical Nursing 1

Animal Nursing 1

Second in sequence of three courses. Students utilize laboratory equipment, including the microscope and complete selected laboratory procedures, including parasitology, mycology, urine analysis, hematology, serology, bacteriology, cytology and blood chemistries.

ANHUSB 10091127

This introductory course to surgical nursing covers surgical instruments, package prep, patient prep, anesthesia, monitoring and post-op care.

ANHUSB 10091128

Designed to build nursing skills learned in 10-091-172, Animal Care & Management 2, with emphasis on large animal anesthetic techniques, surgical preparation and monitoring.

ANHUSB 10091131

Covers the development of appropriate public, client and staff relations; telephone etiquette, making appointments, managing records, client services and education, and personal grooming and attire. Legal requirements of record keeping as well as an introduction to the rules and regulations governing the veterinary and laboratory animal technician will also be discussed.

Veterinary Office Procedures 1

Veterinary Office Procedures 2

Animal Anatomy & Physiology 1

ANHUSB 10091132

A computer based course covering office documents, patient records, billing, estimates, etc., using veterinary office software.

ANHUSB 10091140

Lectures will emphasize terminology, functions, location, identification and organization of anatomical structures that are parts of body systems. Students dissect and study cadavers and tissue specimens from common domestic species.

ANHUSB 10091152

This course focuses on the continuation of basic surgical nursing and anesthesia skills. Also covers basic dental prohylaxis, dental radiography, and cardiopulmonary resuscitation.

ANHUSB 10091153

Diagnostic Imaging

Surgical Nursing 2

3 Credits/Units

Effective: 2016-2017

2 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

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Explores concepts in veterinary radiology, electrocardiography, ultrasound, endoscopy and other special imaging procedures and technologies.

ANHUSB 10091158

Internship - Veterinary Technician Program

Internship (work experience) is a very important phase of practical training for students enrolled in the veterinary program. It generally follows the second semester of classwork in the program. The internship course is offered during the summer term and requires a minimum of eight weeks, and completion of a minimum of 288 hours. The student's work is supervised by assigned instructors. Prerequisite: completion of all first-year program courses, or consent of instructors.

ANHUSB 10091170 Veterinary Medical Terminology - Veterinary Technician 2 Credits/Units Program

Teaches acceptable veterinary medical terminology for common clinically recognizable diseases, operations, systems and procedures, as well as common medical signs, abbreviations and colloquial vocabulary.

ANHUSB 10091171

Animal Care and Management 1

Focuses on handling and husbandry of the animals most commonly seen in veterinary medicine. Includes animal behavior, nutrition, and healthcare. Prerequisite: 10-091-170 Veterinary Medical Terminology, 10-806-105 Animal Biology, 10-091-105 Occupational Preparation.

ANHUSB 10091172

Animal Care And Management 2 Focuses on handling, medical nursing and disease processes of animals most commonly seen in veterinary medicine.

ANIM 10207101

Animation Industry Overview A survey course for those considering a career in digital 3D for cinema, game development, and other industries. Topics include professional standards and expectations, best practices, and an introduction to technical and artistic principles typical of studios served by the Animation anad Concept Development Program. Successful completion of 10-207-101 is required for students scheduled to enter the Animation-Concept Development Program.

ANIM 10207103

Basic Drawing for Concepting

Animation 1

An introductory drawing course emphasizing visualization and rendering skills necessary for concept development in animation and digital 3D. Students will learn the fundamentals of perspective, proportion, linear rendering, basic value structure, and digital approaches currently practiced in related industries. Lecture/demonstration and guided practice leads students toward the creation of concept drawings intended for modeling in 3D, including the development of variations, digital techniques to enhance productivity, and discussion of the strengths and limitations of 3D final execution.

ANIM 10207110

General overview of professional animation, including current industry standards and practices. Students begin a basic study of motion dynamics based largely on the industry's "Fundamental Principles of Animation," presented through a combination of lecture and demonstration and continual analysis of existing professional animation. Contemporary standards, definitions, workflows, etc., are discussed as well as job organization and job-tracking skills, and translation of basic motion principles into digital 3D space.

ANIM 10207111

A foundation introduction to digital 3D. Students learn to organize electronic files and projects into a professional workflow, and to electronically navigate Cartesian space. Class activities include the basics of digital modeling and surfacing, and the translation of 2D prep-work into 3D prototypes.

ANIM 10207112

Photoshop for 3D and Concepting

Introduction To Digital 3D

An introduction to Photoshop as used in professional 3D asset creation and concept development. File organization, efficiency, capture, and best practices are discussed, as well as basic texture creation, tiling, and interaction with 3D software.

ANIM 10207114

This course is an introduction to the fundamental techniques, theories, workflows and software as it relates to 3D modeling for realtime and pre-rendered production. Students will create digital models with an emphasis on topographical density, texture mapping, multi-step processes and asset design. Lectures and projects consist of the various production techniques that explore polygonal modeling and how to prepare constructed models for texturing.

ANIM 10207117

Figure Drawing for Concepting

An introduction to drawing the human figure for the purpose of creating concept art for 3D industries. Course syllabus includes approaches to gestural sketching, proportional and anatomical construction, complete figure studies, and digital techniques for making corrections, variations, and enhancing productivity based on current 3D industry practices.

ANIM 10207120

Animation 2

Modeling 1

Effective: 2016-2017

4 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units



Continuation of the study of motion with emphasis on character movement and animation. A combination of lectures and class demonstration introduces students to forward- and inverse-kinematics, and gradually more complex rigging. The continued study of body mechanics and dynamics by analyzing classic and contemporary professional animation will assist students in translating their own ideas into credible motion in digital form.

ANIM 10207122

Advanced Digital 3D 2 Credits/Units A continuation of Introduction to Digital 3D, this course moves students into more complex modeling and surfacing challenges. Specialized techniques such as patch- and advanced spline-modeling are explored as well as specialized shaders, normal maps, and other advanced surfacing options. Students complete the semester with the design and creation of a complex, multi-part object correctly constructed, linked and boned for advanced animation techniques.

ANIM 10207130

Digital Set Design 1 2 Credits/Units Students concentrate on the planning and construction of architectural and environmental spaces in game-engine software. Basic architectural principles as they relate to animation and appropriate effects for specific themes are explored as well as environmental factors relating to the creation of credible worlds. Class activities include the exploration of specialized perspective problems, worldspecific texture-sets, lighting and composition.

ANIM 10207131

Animation 3

By exploring various off-computer techniques for analyzing character motion, students practice translating their observations into digital form and applying them to their own creations. Extensive study of actual footage and professional work helps students make the conceptual transition from real-world to believable virtual motion.

ANIM 10207133

Digital Set Design 2

Students build upon skills learned in Digital Set Design 1 and work toward the completion of a functional digital environment. Inengine animation and playback is discussed along with further studies in architectural principles, interior and exterior lighting, textures and fine-tuning the final appearance of each student's own creation.

ANIM 10207134

A continuation of modeling skills developed in first two semesters with concentration in creating character and creature models correctly structured for rigging and animation. Realistic and stylized designs are explored as well as advanced UV and basepage techniques.

ANIM 10207139

Design & Color for Concepting

An introduction to the fundamental principles of design and how they relate to both 2D and 3D environments. The course examines differences in interpretation when design principles are applied to a variety of 2D and 3D scenarios. The second half of the semester introduces primary, secondary and tertiary colors leading to an in-depth exploration of color theory and how these concepts relate to 3D media.

ANIM 10207140

Advanced Animation Studio 1

Production Studio

Animation Portfolio

This is the first class in a two-part comprehensive animation studio series. It is a project-based course in which students develop their own projects in consultation with instructors. Extensive studio time provides advanced students with large blocks of instructor and equipment access and allows an in-depth study of particular aspects of digital 3D targeting the completion of a professional quality demo-reel. Group study and interaction is encouraged and detail job tracking is required.

ANIM 10207141

Production Studio is an advanced course in multiple aspects of digital 3D motion. The focus of this course is to develop more intricate and complex character and mechanical animation.

ANIM 10207142

Animation Internship Students work on-site in a professional setting or work on a specific task in consultation with a professional mentor. Regular reviews with a professional are scheduled to assess the student's progress and work quality. Details of internship arrangements can be developed between the student and the participating company as long as specific minimum course requirements are fulfilled.

ANIM 10207143

Each student finalizes a series of animations and other artwork to be posted online highlighting his/her capabilities. The collection is targeted to potential employers and/or to four-year animation degree programs for further education. In addition, each student prepares a professional-level 2D portfolio and a personal ID package (stationary, business cards, etc.) and is required to participate in the year-end portfolio show in conjunction with other art degree programs.

ANIM 10207144

Advanced Animation Studio 2

This is the second class in a 2-part comprehensive studio series. It is a project-based course in which students develop their own projects in consultation with Instructors and industry professionals. Extensive studio time provides advanced students with large blocks of Instructor and equipment access, and allows an in-depth study of particular aspects of digital 3D targeting the student's particular interests. Group study and interaction is encouraged and detailed job-tracking is required.

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

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Effective: 2016-2017

Modeling 3

3 Credits/Units ANIM 10207150 **Animation Concepts 1** Intensive study of the process of developing visual concepts for 3D execution. Course Traditional and digital drawing techniques cover the design of architectural, mechanical, vehicle, and other assets related to the creation of credible and functional 3D environments

ANIM 10207151 **Animation Concepts 2** 2 Credits/Units Intensive study of the process of developing visual concepts for 3D execution, with concentration on the development of character and creature ideas for 3D execution. Traditional and digital drawing techniques cover the design of functional body-mechanics, personality traits and other aspects related to creating the illusion of life.

ANIM 10207224 Modeling 2

This course is an advanced modeling class focusing on specific techniques for creating hard surface models. Hard surfaced models are defined in this course as man-made or machined objects, examples might include helmets, wind turbines, robots or furniture. Building on the concepts of Modeling 1, students will be required to design, research, model, texture and light various hard surface projects over the course of the semester.

ANTHRO 20809279 Introduction to the Archaeology of Native North America

General Anthropology

Provides a detailed survey of the archaeology of North America from the initial movement of peoples into North America to European contact. This course will focus on each defined archaeological culture areas in turn, including: the Eastern Woodlands, Arctic, the Great Plains, Southwest, Plateau, Northwest Coast, and Central America. Students will also be provided with an understanding of basic archaeological theory and concepts as necessary to understand the intricacies of Pre-contact Native American cultures. This course will dispel modern stereotypes about Native North American cultures by providing details on Native American lifewavs.

ANTHRO 20809280

Anthropology is the study of humans and their culture, which includes a survey of three major sub-disciplines of anthropology: physical anthropology, which explores human biology, evolution and the emergence of culture; archeology, which examines the physical evidence of past cultures; and cultural anthropology, which focuses on contemporary culture.

ANTHRO 20809281

Archaeology & Prehistoric World

Designed for students interested in the human past, the period of prehistory where few written records exist and most knowledge of the period comes via archaeological investigations. Organized in a historical and topical fashion, the course traces the evolution of human culture through time, focusing on the best known archaeological sites in Africa, Asia, Europe, North America and Mesoamerica. Emphasis on major changes in human and cultural evolution, such as hunting, abstract thought, domestication of plants and animals, social stratification, the development of writing, the rise of states and urbanization.

ANTHRO 20809283

Cultural Anthropology & Human Diversity This course focuses on exploring the range of modern human cultural diversity across the world. The class will examine the cultural practices and historical ties that constitute commonalities across cultures. Particular attention will be paid to the cultural complexity of modern urbanized societies such as that of the United States.

ANTHRO 20809285

Anthropology of Myth, Magic, and Religion

An anthropological course designed to explore and examine the place of magic and religion in human culture. Students will look closely and critically at 'world religions' (Buddhism, Islam, Christianity, etc.) with analytical exploration of smaller-scale religious and magical practices (shamanism, Wicca, new Age, Cargo Cults, etc.). The forms that magic and religion have taken in human cultures, both past and present, will be covered. Prerequisite: any college-level social science course.

ANTHRO 20809286

The Anthropology of Globalization & Multiculturalism

This course explores the ways that our societies, cultures and experiences have been transformed, in both positive and negative ways, by the political, technological and economic changes brought about by the collapse of the old colonial systems and the continuing growth of all pervasive capitalism, consumerism and militarism.

ANTHRO 20809287

Anthropology of Islamic Societies and Cultures

This course will explore the social, cultural, economic and political aspects of the emergence, development and spread of Islam as a world religion. It will focus on Islam in 7th century Arabia, how the religion changed in the time since the 7th century and as Islam moved out of Hijaz into Africa and Asia, and its historical and continuing encounters with the West.

ANTHRO 20809288

Human Biology & Physical Anthropology

This course has been designed to give students a forum in which to explore the biological nature of the human species. Through this course, students will examine the current state of knowledge in anthropology regarding the genetic and biological diversity of the human species, the place of humanity in the primate and mammalian family trees, as well as of the evolution of the human line since its separation from that of apes.

ANTHRO 20809289

World Regional Geography

3 Credits/Units





Effective: 2016-2017

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Real world smart.

World Regional Geography introduces students to the basic physical and cultural geographies of the world's major regions (e.g., Central Asia, the Caribbean). Emphasis is placed on exploring what makes each region environmentally and culturally distinct, on regional human-environment relationships and associated environmental issues, and on the historical and contemporary linkages between the world's regions.

Course themes are placed in the context of globalization, including its historical periods (e.g., European colonialism). The world's regions have become increasingly interconnected through transnational flows of people, plants, capital, and microbes, among other things. This course examines how and why

the world has become more interconnected, and how globalizing processes have shaped the political, economic, ecological, and cultural character of each world region.

ANTHRO 20809292 Agriculture, Food, and Society 3 Credits/Units

Examines the fascinating yet often thorny intersection of agrofood systems, the environment, politics, and society. Students will be exposed to case studies from both the past and present and from throughout the world.

ARABIC 20802240

Intro to Modern Arabic 1 Intro to Modern Arabic 1 begins with a thorough study of the Arabic sound and writing system, with the simultaneous introduction of conversational skills in Modern Standard Arabic, the standard written and literary form of Arabic used in educational institutions throughout the Arabic-speaking world. Modern Standard Arabic is the language of newspapers and literature, as well as that of formal speeches and news broadcasts. This course fulfills the needs of those wishing to pursue studies of the Qur'an and classical texts as well as those wishing to be fluent in contemporary Arabic in both its written and formal spoken forms. Knowledge of this form of Arabic can serve as a basis for further studies of regional dialects. At the conclusion of the course, students will be able to speak and write using a basic vocabulary and thorough understanding of the Arabic writing system. This course, combined with Intro to Modern Arabic 2 transfers to the University of Wisconsin-Madison as equivalent to the 5 credit African Lang. & Lit 321: First Semester Arabic.

ARABIC 20802241

Intro to Modern Arabic 2 builds on the basic understanding of the Arabic sound and writing system and conversational skills in Modern Standard Arabic established in Intro to Modern Arabic 1. Modern Standard Arabic is the language of newspapers and literature, as well as that of formal speeches and news broadcasts. This course fulfills the needs of those wishing to pursue studies of the Qur'an and classical texts as well as those wishing to be fluent in contemporary Arabic in both its written and formal spoken forms. Knowledge of this form of Arabic can serve as a basis for further studies of regional dialects. At the conclusion of the course, students will be able to speak and write about themselves with complete control of the Arabic writing system. This course, combined with Intro to Modern Arabic 1 transfers to the University of Wisconsin-Madison as equivalent to the 5 credit African Lang. & Lit 321: First Semester Arabic.

ARCHT 10614100

This course examines the way one perceives the man-made environment, how to better understand it and related disciplines. An overview of architecture and its elements including design, history, terminology, sustainable design, urban design and landscape architecture will be presented.

ARCHT 10614101

Architectural Theory 1 A survey and examination of key underlying design tenets, theory, philosophies; and social, cultural and behavioral factors in applied environmental settings. Theoretical design principles are introduced in lecture and readings that incorporate seminal works of architecture. Students combine the creation of collage diagram analysis with intensive writing experiences as a model for learning theoretical design principles.

ARCHT 10614111

Emphasizes architectural drafting and the theory of drafting. Proper architectural lettering, line work and use of drafting tools are discussed. Orthographic projector, isometric, axonometric perspective drawings, contours, shade and shadow are covered in the first semester. Massing studies using the software "Sketch up" is also incorporated.

ARCHT 10614112

Using the latest release of AutoCAD, students develop a preliminary set of Construction Document drawings for a residential project. Emphasis is placed on CAD standards, drawing set organization, building element coordination and plotting. Drawing types range in scale from site plans to wall sections. Relevant zoning and building code requirements are reviewed. Prerequisites: 10-614-111 and 10-614-113.

ARCHT 10614113

Intro To CAD-Architectural

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Architectural Graphics 1

Architectural Graphics 2

Introduction to Architecture

Intro to Modern Arabic 2

Major emphasis is placed on learning the basic commands necessary to complete two-dimensional construction drawings for the architectural community. Approximately 50 percent of the course is spent on lecture/demonstrations concerning software commands and procedures, while 50 percent of the course is spent in on developing operating skills. A basic understanding of Windows and file management is necessary for success within the course. The current version of AutoCAD is used as the teaching tool Co-requisite: Architectural Graphics 1, 10-614-111, or consent of instructor.

ARCHT 10614114

Advanced CAD

Students use the latest release of AutoCAD to develop CAD Manager skills by using the program efficiently and consistently. Topics include trouble shooting, file management, CAD standards, template creation, plotting styles, keyboard commands, dynamic block creation, macros and custom toolbars. Working in project teams, students will produce a preliminary set of coordinated AutoCAD drawings for an offsite owner.

ARCHT 10614115

Students are introduced to the industry's leading 3D Building Information Modeling (BIM) software, learning commands for creating parametric BIM models that incorporate both architectural and structural components. These models are used to develop and redline a set of commercial construction documents incorporating site plans, floor plans, elevations, sections, details, schedules and renderings. Family creation is introduced.

ARCHT 10614118

Design Communications

Digital Architectural Rendering

Introduction to Revit

Studio course in techniques and conventions of graphic communication as an aid in the design process. It covers graphic principles, media, sketching and perspective drawing techniques. Emphasis is on developing drawing and rendering skills using pencil, color marker and pastels. Students generate sketches, presentation plans, one- and two-point perspective drawings and use these drawings to generate a variety of architectural presentations. Prerequisite: 10-614-111.

ARCHT 10614119

Students are introduced to a variety of architectural digital rendering techniques and workflows for a variety of industry leading platforms. Workflows for producing architectural graphics for multiple project phases from programming and conceptual design to photorealistic rendering will be explored. Students will gain real world rendering workflows for projects in Autodesk Revit, Autodesk 3DS Max and SketchUp.

ARCHT 10614120

Professional Practice

This course will examine the professional environment in which the architectural technician works related to the organization and conduct of a design/construction practice. Learners will examine this aspect of the profession through a number of different lenses: procuring employment, state laws governing architectural practice, project budgeting, client management, project delivery/team organization modes, contracts and legal issues, risk and liability management, product specifications and substitutions, and construction administration, dispute resolution, and social responsibility. The goal of the course is to broaden and deepen learners' understanding of the profession, its role in society, and his or her place in it.

ARCHT 10614121 **Construction Materials - Architectural Technology Program** 3 Credits/Units Emphasizes materials used in building construction and their manufacture and application in various construction systems from wood frame to masonry, steel and precast concrete. Basic properties of materials are discussed as well as how, when and where to use them.

ARCHT 10614122 **Revit MEP** 2 Credits/Units Using the industry's leading 3D architectural modeling software, students will incorporate mechanical, electrical, and piping systems into an architectural BIM model. Building Information Modeling (BIM) concepts and advantages will be discussed throughout the course. Coursework will run in conjunction with skills developed in Intro to Revit. Students will be developing vignettes for each building system type using Revit.

ARCHT 10614123

Electrical and Mechanical Systems

Covers the basic principles of plumbing, electrical, lighting, daylighting, HVAC, fire safety, sprinklers, energy efficient design, vertical transportation and acoustics found in buildings today. Particular attention will be paid to the International Building Code and its impact on these systems. Guest speakers and a small student designed project will augment the course.

ARCHT 10614132

Building Estimating Studies problems and responsibilities of the estimator, including plans, specifications and published construction cost data. Emphasis is on understanding estimating techniques and methods of preparing estimates and take-offs.

ARCHT 10614135

Building Codes Emphasis is placed on the study of the International Building Code and the Uniform Dwelling Code. The student will become familiar with using the code and will acquire a general knowledge of codes, standards and federal regulations.

ARCHT 10614142

Architectural Detailing

2 Credits/Units

1 Credits/Units

Effective: 2016-2017

2 Credits/Units

3 Credits/Units

2 Credits/Units

4 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

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This course provides an in-depth study of materials and building assemblies as it pertains to accepted practices in architectural detailing and design. Emphasis will be placed on detailing techniques commonly found in commercial construction. Topics included are masonry, steel, and concrete construction. Field trips and guest lecturers from the architectural, engineering and construction industry will supplement the course.

ARCHT 10614145

Architectural Design Studio Covers the basic skills used in the building design process. Introduces the student to building siting and massing, program analysis, building circulation, space flow diagrams, adjacency studies, and building context. The design process continues with the integration of the structural steel framing. The student will design the framing plans as well as complete the calculations for the sizing of the individual steel members.

ARCHT 10614152

Introduction to Sustainable Design and LEED

The course provides the learner with an overview of sustainable design relevant to the design and construction industry, while concentrating on accreditation within the US Green Building Council LEED© (Leadership in Energy and Environmental Design) v.3 sustainable design program. Concepts discussed: the need for sustainable design, architects as stewards of the environment, construction activities, site selection, stormwater management, landscaping choices, building energy and atmosphere, indoor environmental quality, materials and resources and the Green Associate LEED© exam. Guest speakers and field trips provide additional support.

ARCHT 10614154

Introduces the student to the basic design issues of the urban environment. Explore building massing and site analysis as they relate to the urban context. Learn about vehicular and pedestrian circulation, zoning analysis, contour manipulation and basic plant material selections. Course places a strong emphasis on in-class presentations utilizing the use of multimedia digital technology.

ARCHT 10614155

Students develop proficiency in skills introduced in Intro to Revit, including modeling, family creation, design options, importing, rendering, and exporting with the current version of Revit Architecture. Particular emphasis is placed on advanced modeling and family creation. This class also introduces new concepts related to creating and managing 3D BIM models including defining site topography and site-related features, massing, phasing, file linking, and worksharing. Competence will be demonstrated through performance on the CAD station, through saved projects, and through submitted printouts that will include both construction documents and rendered images. For one project, students will be working within a group and submitting a joint project, during which students will develop the essential worksharing skills required to complete large-scale building projects that require multiple drafters. Prerequisites: Architectural Graphics 1, 10-614-111; Intro to CAD-Architectural; 10-614-113; Intro to Revit, 10-614-115.

ARCHT 10614178

Building Structures

Site Design

Advanced Revit

Study of forces that act on a structural member. These forces affect all types of structures including parts of machines. This course will emphasis the use of statistics as it applies to building structures. Students look at types of force systems, vectors, resultant forces, moments, truss analysis and reactions. Strength of Materials provides the various analytical tools necessary for the sizing of specific structural members based on the loading conditions and strength of the material. The student will gain the knowledge necessary to calculate the sizes of members made of specific materials including wood, steel and masonry.

ARCHT 10614193

Job Orientation

Occupational information prepares students to seek employment. Includes personal data sheets, job interviews, portfolio design, and letters of introduction and recommendation. Former graduates are invited to discuss needs of students before employment. Representatives of labor, management, business and the professions are invited to discuss points of interest toward becoming an employee. Prerequisite: third-semester standing.

ARCHT 10614194

Portfolio Preparation for Architectural

Techniques and conventions of developing an architectural portfolio will be addressed as students generate personal portfolios for use in seeking employment. Emphasis is on developing professional documentation of work accomplished in school and related activities, both in hard copy and electronic format. Former graduates are invited to discuss current trends in hiring and what makes a portfolio stand out. Each student will display their portfolio in the annual Architectural Technology Portfolio Show to take place each Sprina.

ART 20815200

Art History: Ancient to Medieval

Surveys the development of Prehistoric, Ancient through Medieval art and architecture found throughout Europe, the near East and Egypt. Emphasis is given to the form and meaning of a select group of artworks and buildings, their stylistic tendencies and respective movements in the history of art, and the socio-political and cultural contexts for these movements.

ART 20815201

Basic Design 3 Credits/Units Design Fundamentals introduces students to the elements of art (line, texture, color, shape and value). Students will investigate how these elements can be manipulated using various principles of design to achieve different effects. Basic color theory will be covered.

ART 20815202

Color & Design

3 Credits/Units

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Effective: 2016-2017

4 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

4 Credits/Units

1 Credits/Units

1 Credits/Units

Color and Design provides involvement with practical and theoretical color problems while building knowledge of advanced design concepts.

ART 20815203

In this course students explore different ways of manipulating form and space. Projects will introduce students to basic techniques such as modeling, construction and carving.

3-Dimensional Design

ART 20815205 **Drawing Fundamentals - Liberal Arts Transfer** This is an introductory drawing class emphasizing sound craftsmanship and the study of basic freehand drawing from direct observation. Class topics include the study of perspective, proportion, composition, and properties of light and shade. Students will explore a variety of drawing media and techniques.

ART 20815208 **Contemporary Art Survey** 3 Credits/Units Examines contemporary art trends, focusing on European and American art produced from 1950-the present. Artists' motivations, intentions, and processes will be considered in relationship to general developments in contemporary art. Traditional media considered will include painting, sculpture, and photography. Recent innovations in media will also be recognized, such as installation, performance, and new technology.

ART 20815210 Art History: Renaissance to Modern 3 Credits/Units Surveys the development of European and American art and architecture from the time of the early Renaissance in Italy through the first quarter of the 20th century. Emphasis is given to the form and meaning of a select group of artworks and buildings, their stylistic tendencies and respective movements in the history of art, and the socio-political and cultural contexts for these movements.

ART 20815211

This course will present a broad survey of selected outstanding women artists from the 12th to the 20th century. The focus is on painting, sculpture and mixed media from the Medieval Era to the Modern Era, considering a variety of individual European and American artists and their works.

Art History: Women In Art

ART 20815214

Modern Art Survey Introduces students to modern art's most influential movements, focusing on European and American art produced between 1880-1950. Painting, sculpture, and photography will be the primary media considered for this time. The principal ideas of these movements will be discussed in relation to their wider intellectual, social, technological, and aesthetic context.

ART 20815215

Drawing 2

Drawing 2 explores a variety of drawing media and techniques through projects that encourage students to consider subject/content relationships. Students will develop conceptualization skills that will prepare them for working on independent projects.

ART 20815218

This course is designed for students who wish to pursue an individual portfolio building project. Students are expected to have experience with chosen artistic media, so they can rely on a certain level of competency as they pursue an independent project. As students continue to develop technical skills, they will also focus on concepts and content as they build a portfolio.

ART 20815219

Life Drawing introduces students to drawing the figure in a variety of situations. Students will use different drawing media and techniques as they explore both descriptive and expressive ways to depicting the human figure. Includes study of human anatomy.

ART 20815220

Continuation of life drawing with emphasis placed on expression, articulation, dramatic effect and refinement of technique.

ART 20815221

Life Drawing 3

Continued emphasis on expression, articulation, and refinement of technique with increased attention to personalized direction.

ART 20815232

Digital Design Fundamentals A comprehensive course to introduce the tools and functions of four essential digital design programs. Learn to create and edit vector artwork in Adobe Illustrator, create and edit photographic content in Adobe Photoshop, develop 3-D forms with SketchUp, and build a website with Adobe Dreamweaver to display a portfolio of the art works and projects created. Out of class work time and reading and some writing is required in addition to in class instruction, work time and critique participation.

ART 20815234

Photography - Liberal Arts Transfer This is a basic course in 35mm black-and-white photography featuring instruction in camera operation, film developing, printing and mounting techniques. Students provide their own cameras and film.

ART 20815235

Creative Photography

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units





Independent Projects in Studio Art

Life Drawing 1

Life Drawing 2

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Madison Area Technical College

In Creative Photography basic 35mm camera and darkroom techniques are reviewed. Personal expression of photography as a fine art is encouraged through a series of problems stressing personal vision and mastery of the photographic medium. Note: Students supply their own single lens reflex 35mm camera and film.

ART 20815236

This course continues the exploration of photography as a fine art as presented in Creative Photography. Further exploration of camera and darkroom techniques intended to foster the understanding of photography as a means of artistic expression.

Advanced Creative Photography

Digital Photography

ART 20815239

Provides an introduction to the photographic process through the use of digital cameras to produce images for presentations, the World Wide Web, and electronic publication. Covers basic principles of effective composition, light, exposure and control of motion and focus. Participants provide their own digital camera.

ART 20815241

Introduces students to the basic techniques of oil painting, with emphasis on composition and color. Students will paint from classroom still life arrangements for the first part of the course. Later in the semester, students are encouraged to develop paintings that explore personal themes.

ART 20815242

Painting 2 Painting 2 is an intermediate level painting course emphasizing the development of conceptualization skills. Painting projects encourage students to respond to a general theme, subject, or concept by developing a unique and personal image. Students can respond to assignments by working in various paint media (oil, acrylic, watercolor, or collage).

ART 20815253

This course is an introduction to basic jewelry making techniques through technical demonstration and individual projects covering simple forming, fabricating, lost wax casting, cold forging and finishing techniques.

ART 20815254

Jewelry 2 - Liberal Arts Transfer Jewelry 2-Art Metal gives an introduction to silver smiting, chasing, repousse and advanced stone setting.

Art Metal Welding

Jewelry 1

ART 20815256

Designed to increase the understanding of the technical aspects of metal fabrication for art-related endeavours. Due to the technical nature of this class, the emphasis will be on technical concerns rather than on aesthetic concerns. It is to be realized however, that technical aspects are but one consideration when creating art.

ART 20815290

Ceramics 1 - Liberal Arts Transfer

Ceramics 1 introduces clay as an art medium through demonstration and experimentation with basic hand-building methods. It encourages individual involvement with the media and emphasizes personal expression and exploration of texture, form and surface decoration. This course covers electric and raku firing, relevant vocabulary and some of the technical aspects of clay.

ART 20815291

Ceramics 2 - Liberal Arts Transfer

Ceramics 2 covers either the development of basic wheel throwing skills or advanced hand-building techniques. Students work with glaze development through both judicious testing and empirical formulas. Electric firing and raku firing will be explored.

ART 20815292

This is an introductory course in watercolor painting. Students will learn about the media and investigate various applications. There will be emphasis placed on composition and color as students develop paintings from both classroom still life arrangements and personal sources.

ART 20815294

Ceramics Sculpture 1

Focuses on developing the ability to make by hand, ceramic sculpture through creative projects. Forming techniques, glazing and kiln stacking are an integral part of the class and are learned through hands-on activities. Students make creative and innovative sculpture in this laboratory class as well as research and critique works of art.

ART 20815295	Ceramics Sculpture 2	3 Credits/Units		
This course is a continuation of Sculpture 1.				
ART 20815296	Ceramics Firing Techniques/Alternative Methods	3 Credits/Units		

ART 20815296

MADISON AREA | TECHNICAL I FGF

Watercolor 1

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Painting 1 - Liberal Arts Transfer

The class will focus on different firing techniques. Techniques covered would be Raku, sawdust firings, the use of saggars at different temperatures, vapor glazes and primitive pit kilns, as well as more traditional luster firings and other low temperature techniques. Surface treatments to pots that enhance the uniqueness

of the firing would be stressed. Students will have the opportunity to build kilns and manage the firings themselves. If possible, the class would try to have pieces in, and help with, a wood firing and salt firing.

The class will meet in the Downtown Ceramics studio as well as at the

Commercial Ave Campus for some firings.

ART 20815297

Continuation of Watercolor 1.

ASTRON 20806253

Astronomy: The Solar System An introductory astronomy course covering the sky and celestial motions, ancient astronomy, the Copernican revolution, gravity and

Watercolor 2

orbits, light and astronomical instruments and the solar system. Recommended evening observing sessions will also be included. (These are off campus meetings for star viewing with the school's binoculars and telescopes.)

ASTRON 20806254 Astronomy: Stars & Galaxies An introductory astronomy course covering gravity, light and astronomical instruments, our Sun, stars and stellar evolution (including nebulae, supernovae, white dwarfs, pulsars, and black holes), Milky Way and other galaxies, and cosmology (history, structure, and fate of the universe, big bang theory). Some optional evening observing sessions may also be included (off campus meetings for star viewing with the school's binoculars and telescopes).

AUTMFG 10628168

Robotics for Industrial Automation 2

FANUC Robotics based advanced study of applications, operation, programming and troubleshooting of Industrial Robots. Prepares the learner to establish and modify robot axis soft limits; navigate the teach pendant to set up the robot for automatic operation; define the Frames of reference used by the coordinate system; create multiple Tool Frames; create a program file; write a functional motion instruction; edit, copy and delete an existing program; demonstrate the use of a wait statement; demonstrate the use of a Call statement; demonstrate the use of an Output statement; and upload and download program memory files. Backup and restore the Controller image

AUTMFG 10628170

Robotics for Industrial Automation 1

FANUC Robotics based introductory study of applications, operation, programming and troubleshooting of Industrial Robots. Prepares the learner to identify the component parts of a robot; describe teach pendant and robot functions; power up the robot control in proper sequence; jog in Joint and Cartesian movement; identify axis movements; navigate the teach pendant to set up the robot for desired movement; demonstrate working knowledge of arm speed and inching control; select the Frames of reference used by the coordinate system; edit an existing program.

AUTMFG 10628172

Vision for Robotics in Industrial Automation

This course prepares the learner to program a vision systems as a stand-alone solution and integrate into robotic systems. The student will receive instruction on general vision concepts, including camera setup, lighting, lensing, 2D Single & 2D Multiple View Process and perform hands-on programming with industrial vision systems.

AUTMFG 10628302

The planning, documenting, fabrication, assembly and programming of electro-mechanical components is used to introduce students to the principles of integrating automated machines. This course applies the project management, and CAD 2D skills related to electro-mechanical automated systems. The study of motion sequences and control drawings as well as Gantt chart creation and application will be used within this class. Machine effeciencies and trouble-shooting of desktop electro-pneumatic controls is applied.

AUTMFG 10628401

PLCs for Industrial Automation 1

Fluid Power 3 for Industry

Introductory study of PLC Programming overview (parts, principles of operation, size and applications), PLC components (I/O modules, specifications, CPU, memory, programming options), Number systems and codes (binary, decimal, hexadecimal, BCD, ASCII, binary arithmetic), Fundamentals of Logic (binary concept, AND, OR, NOT functions, Boolean algebra, logic gates, word level instructions), Basics of programming in RSLogix500 (memory organization, program scan, programming languages, instruction addressing, XIC, XIO, OTE instructions, creating ladder logic), PLC installation practices, editing, and troubleshooting (enclosures, electrical noise, grounding, voltages, program editing, program monitoring, preventive maintenance, troubleshooting, connecting to your PLC to your PC)

AUTMFG 10628402

PLCs for Industrial Automation 2

1 Credits/Units





Effective: 2016-2017

4 Credits/Units

3 Credits/Units

4 Credits/Units

2 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

Intermediate knowledge of programmable logic controller (PLC) installation, interfacing, operation, and programming in RSLogix500. Timer instructions (ON-delay, OFF-delay, RTO, cascading timers), Counter instructions (Counter-up, Counter-down, cascading counters, combining counter and timer functions), Data manipulation (Math instructions), Program control instructions (MCR, jump, subroutines, forcing, safety circuit, temporary end, fault routine), computer controlled machines and processes (communication fundamentals) RSLinx communications, Introduction to RSLogix5000 and ControlLogix programming).

AUTMFG 10628403

Programmable Automation Controller 1

Advanced programmable logic controller (PLC) installation, interfacing, operation, and programming (RSLogix5000). Students learn how to connect advanced PLCs in a typical industrial PLC network utilizing Ethernet, ControlNet, DeviceNet, RS232 and RIO communication paths. Data sharing and distributed PLC programming techniques along with fundamentals of touch panel programming, VFD integration and operation are studied.

AUTMFG 10628404 **Programmable Automation Controller 2** 2 Credits/Units Advanced programmable logic controller (PLC) programming (RSLogix5000). Students learn how to connect advanced PLCs in a typical industrial network, integrating touch panel programming, VFD and Servo motion control. Programming PLCs utilizing Function Block Diagram are studied. Students gain an understanding of SCADA and MES system and PID loops. Students are introduced to a variety of intelligent sensors and vision systems.

Introduction to Logic & Troubleshooting

The course introduces basic troubleshooting tools, methods and techniques. Students will learn about interpreting schematics, Boolean logic, truth tables, and number systems. The course uses software simulations and labs to introduce relays and relay ladder logic. Students apply common troubleshooting techniques and root cause analysis.

AUTMFG 10628450

AUTMFG 10628420

Integration of Mechanisms and Controls 1 The student will apply the concepts of robots and automation by building a small automation system. This automation cell will be accomplished within the framework of an assigned team of students. Student will apply learned concepts studied in previous classes. These concepts will assist in building, testing, and running their automated work cell. Student will develop, and apply project planning, time management and cooperative methods with their team members to build their work cell. Student will learn how to design and make parts for this project. Student also will specify and purchase parts as well as, analyze system malfunctions, which may occur to the modular level. Student will practice the skills needed to interface and make repairs.

AUTMFG 10628451

Integration of Mechanisms and Controls 2

Focuses on integration of a complete manufacturing cell. Typical components include programmable controllers, robot, sensors, drives, conveyors, pneumatics, hard automation, control wiring and vision. Students plan, wire, program, troubleshoot and develop documentation for the whole system.

AUTMFG 10628500

Introduction to HMI and SCADA Development

This class is designed to give students the knowledge necessary to troubleshoot and maintain a SCADA (supervisory control and data acquisition) system. This includes control strategies, controllers and IO, as well as system software database connections and HMIs

AUTOBODY 31405374

Collision Occup Orient Introduces the computer electronic system for repair of unibody vehicles, and proper anchoring and pulling procedures. Instruction on removing and replacing drivetrain components is included. The proper care and protection of on-board computers in autos is stressed. Sheet metal alignment, and frame and unibody straightening, along with procedures for restoring severely damaged vehicles are studied.

AUTOBODY 32405301

Basic Sheet Metal Repair & Welding Fundamentals Course material covers the introduction in the use of an oxyacetylene welding/cutting outfit as related to collision repairs. A heavy emphasis is placed on the mig welding process, types of welds and techniques used of hammer and dolly, pry tools, stud guns, air and electrical tools, hydraulic-porto-power jacks and other straightening tools, used in the processes of metal finishing and plastic filling.

AUTOBODY 32405302

The refinishing phase includes instruction in the proper use and maintenance of the spray gun, refinishing panels and fenders, spot repairing of panels and fenders, and mixing of paint formulas. Application of primers, sealers, single stage, and coat/clear coat are covered. Instruction in shop, tool and paint safety, and state and federal environmental concerns are presented.

AUTOBODY 32405303

Non-Structural Panel Repair & Glass Servicing

Further development of straightening skills and sheet metal alignment is achieved by performing these activities on automobiles. Such operations as straightening damages sheet metal on fixed parts and removable panels are performed. Instruction on the replacement of fixed glass such as windshields, rear window, and side glass is covered using industry standards. Further instruction includes the components and procedures involved in the removal and installation of movable glass.

AUTOBODY 32405304

Refinishing 2/Trim & Hardware

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Effective: 2016-2017

2 Credits/Units

1 Credits/Units

4 Credits/Units

4 Credits/Units

2 Credits/Units

2 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

Real world smart.

Refinishing 1

The refinishing phase includes further instruction in the proper use of the spray gun, performing partial and complete refinishing repairs on vehicles. Procedures for blending and tinting of the paint to achieve an acceptable color match are practices. Shop and paint safety practices are emphasized. Instruction on the safe removal and installation of trim and hardware is covered along with specialty tools necessary to perform operations using industry accepted procedures.

AUTOBODY 32405305

Vehicle refinishing techniques including preparing adjacent panels for blending, base coat and clear coat blending, color adjustment and testing color match. Complete refinishing and panel blending is performed on repaired vehicles.

Auto Refinishing/Color Adjustment

AUTOBODY 32405306

Collision Structural Welding & Panel Replacement 5 Credits/Units Structural damage analysis, measuring vehicle dimensions, pulling and straightening vehicle structures. Replacement and alignment of non-structural panels will be performed on vehicles. Collision structural section joints will be constructed and welded (GMAW).

AUTOBODY 32405307

Adv Collision Structural Repair

Application of replacement procedures for structural panels such as front and rear rails, rocker panels, A- pillars, B-pillars, and floor pans. Servicing and removal of drivetrain, suspension steering and other related components utilizing industry accepted procedures. Understanding suspension and wheel alignment angles and diagnostic procedures.

AUTOBODY 32405308

Collision Plastics/Composites & Adv Refinishing Applications 5 Credits/Units Identification of automotive plastics, repair decisions, using adhesives and welding to repair plastics. Refinishing techniques include refinishing plastic, multi-stage finishing, and advance blending techniques and custom painting options.

AUTOBODY 32405311

Introduction to Airbrushing and Custom Painting This course is for the student who has little or no airbrush experience and to teach the student to disassemble. clean and set-up his or her own airbrush. Provides instruction in paint mixture and how different reducers affect the end result (cleanliness, etc.) This course also demonstrates practice drills and proper techniques for brush strokes towards building control and skill.

AUTOBODY 32405321

Advanced Airbrushing and Custom Painting

Go in-depth in paint mixture, practice drills and proper techniques for airbrush strokes towards building control and skill. Includes types and methods of stencil use, from hand taping to computer cut materials, as well as overviews of commonly found "hand held" barriers and masks that provide some simple background and fill techniques. We cover "stacking" or use of multiple piece stencils to create popular graphics. Techniques in aging or patina with airbrush. Explore color variation using known theory and methods to build eye pleasing color schemes. Hand Striping: learn the proper set-up for paint mixture and brush shaping which is vital to the art of fine lining, outlining graphics or lettering. An overview of "gold leafing" and other special effects are presented.

AUTOBODY 32405334

Collision Damage Analysis and Report Writing

This course includes damage analysis, vehicle identification, estimate writing sequence, use of estimation guide for parts and labor costs, and writing damage reports manually and with a computer. Each student has the opportunity to estimate damaged vehicles.

AUTOBODY 32405340

This course is an introduction to automotive electrical systems, including basic electricity, trouble shooting and repair of common electrical circuits, wiring diagrams, soldering, power accessories and restraint systems. Standards for safety when working with electrical systems is emphasized.

AUTOBODY 32405341

Covers basic operations and servicing principles of brake systems, fuel and exhaust systems, heating and cooling systems, suspension and steering systems, and automotive air conditioning principles including components that make up an AC system. Regulations regarding discharging/recharging and trouble shooting as related to collision repair are also included. Safety practices regarding mechanical systems are covered.

AUTOBODY 32405361

Collision Repair/Refinishing Theory 1 Covers related information on all phases of auto body welding and metal straightening with hand tools and hydraulic equipment. Collision damage analysis of sheet metal and unibodies is studied. Different types of sheet metal, such as HSS and HSLA, as well as the properties of sheet metal are discussed. Where and how to use plastic filler is presented. Paint equipment such as the operation and maintenance of the spray gun is studied. Extensive discussion takes place on refinish products, surface preparation, sanding and polishing, thinners and reducers and top coat application. Instruction in shop, tool, paint safety, and state and federal environmental concerns and regulations are presented.

AUTOBODY 32405363

To further promote knowledge of repair skills related to auto collision repair and refinishing, the following discussion areas are included: the evaluation of automobile bodies and damage repair techniques, unibody construction and repair techniques, vehicle preparation, metal correction and parts replacement. Additional instruction includes glass installation, electrical accessories, door and window servicing and trim replacement.

Collision Repair and Refinishing Theory 2

AUTOBODY 32405365

MADISON AREA | TECHNICAL COLLEGE

Collision Repair and Refinishing Theory 3

3 Credits/Units

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2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

5 Credits/Units

2 Credits/Units

2 Credits/Units

5 Credits/Units

Collision Electrical Fundamentals

Collision Mechanical Systems

Introduces the computer electronic system for repair of unibody vehicles, and proper anchoring and pulling procedures. Instruction on removing and replacing drivetrain components is included. The proper care and protection of on-board computers in autos is stressed. Sheet metal alignment, and frame and unibody straightening, along with procedures for restoring severely damaged vehicles are studied.

AUTOMECH 32404316 Accessories - Automotive Technician Program 2 Credits/Units Students study equipment supplied by both the major manufacturers of automobiles and after-market suppliers. Classroom and lab activities help students understand basic electricity, electric circuits and use of test equipment to troubleshoot problems in circuits such as lighting, windshield wipers, power windows, instruments and sound systems.

AUTOMECH 32404318

Covers the basic principles of heating and air conditioning. Detailed studies of heating systems, air conditioning systems, including vacuum and electrical controls, and automatic temperature control systems are carried out in the classroom and the lab. Diagnosis and typical service jobs are done in the lab using up-to-date tools and diagnostic equipment. Students will receive State of Wisconsin AG 136.09 certification upon completion of this course.

Automotive Heating & Air Conditioning

AUTOMECH 32404335

Powertrain Management Systems - Automotive Technician 5 Credits/Units Program

All engine operating systems are studied: engine breathing, ignition systems, computer control and sensors, fuel and air management and emission systems. Students learn how these systems operate, how to test for proper operation of systems and components, and how to use test equipment.

AUTOMECH 32404336

Engine Rebuilding - Automotive Technician Program

Students become familiar with the tools, machines and equipment used to repair automotive engines. Emphasis is placed upon the development of diagnostic ability and work skills.

AUTOMECH 32404339

This course covers fundamentals of automotive brake systems including drum brakes, disc brakes, hydraulic systems, power brakes and anti-skid systems. Covers wheel and tire diagnosis and repair. Steering and suspension safety inspection is covered. Laboratory work stresses brake overhaul and component reconditioning and troubleshooting of brakes.

AUTOMECH 32404340

Service Repair Procedures - Automotive Technician Program The theory, design and operation of the automobile engine, along with maintenance, light-duty repair and safety inspection are

studied. Engine lubricating, cooling, exhaust systems and headlight aiming are studied and serviced. Theory and proper use of hand tools, test equipment, sealants, and fasteners are emphasized.

AUTOMECH 32404341

Suspension & Steering Systems

Braking Systems

Covers basic principles of passenger car construction, suspension, and wheel alignment angles. Laboratory work stresses inspection, correction or replacement of all suspension parts and the role they play in proper vehicle handling and operation. Alignment procedures and the use of modern wheel alignment machines and troubleshooting are stressed.

AUTOMECH 32404355

Automatic Transmissions Students study the electrical, mechanical and hydraulic systems of the modern automatic transmission and transaxle. Demonstrations and practice provide the opportunity to become proficient in diagnosis, service and complete rebuilding of these systems.

AUTOMECH 32404356

Manual Drivetrain & Axles Clutches, standard transmissions, manual transaxles, drivelines and differentials are studied. Demonstrations and practice provide the opportunity to become proficient in diagnosis, service and complete rebuilding of these systems.

AUTOMECH 32404357

Driveability Diagnosis

Practical application of principles, concepts and diagnostic abilities covered in the three-prerequisite course, Advanced electrical/electronic diagnostic applications will reinforce prior competency development.

AUTOTEC 10602102

Service Repair Procedures - Automotive Technology Program Automobile engine theory, design and operation are studied. Other studies included are the diagnosis and repair procedures of the engine cooling, lubricating and exhaust systems. Batteries, starting and charging systems are covered in detail along with the proper use of meters and the latest test equipment. Shop safety and proper use of hand tools is emphasized. Please note:

AUTOTEC 10602115

Introduction to Electric and Hybrid Electric Vehicles

This course provides: a brief history of electric and hybrid electric vehicles, electric/hybrid electric vehicle safety procedures and equipment; components and current vehicle overview; hybrid electric vehicle components; current design configurations, current and near future vehicles; an introduction to electric/hybrid electric vehicle test equipment and procedures; and an introduction to electric/hybrid electric vehicle maintenance and trouble shooting. Also, Diesel, alternative fuel systems, including CNG and Fuel Cell, and related components are covered.



5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

4 Credits/Units

2 Credits/Units

Effective: 2016-2017

2 Credits/Units

5 Credits/Units

AUTOTEC 10602125

The automotive repair industry demands that technicians have a proficient understanding of the electrical systems which are at the heart of today's vehicles. Students are introduced to basic electricity fundamentals in accordance with industry standards and then apply the concepts to vehicle circuits and components.

Electrical and Electronics Systems 1

Electrical and Electronics Systems 2

Internal Combustion Engines

AUTOTEC 10602127

This automotive course focuses on developing the skills needed to diagnose, service, and repair electrical and electronic systems, including batteries, starting and charging systems, lighting systems, horn and wiper systems, and introduction to computer control systems.

AUTOTEC 10602150

The internal combustion automotive engine is studied in detail by discussion, demonstration and laboratory experiments. The latest machining equipment is used to accurately diagnose, disassemble, repair and reassemble an automobile engine. Diagnosis of engine related mechanical problems is covered.

AUTOTEC 10602152 **Driveability Analysis** Practical application of principles, concepts and diagnostic abilities covered in the 2 prerequisite courses. Advanced electrical/electronic diagnostic applications will reinforce prior competency development.

AUTOTEC 10602153

Manual Drivetrains & Axles

The operation and theory of clutches, transaxles, standard transmissions, drivelines and differentials are covered. Areas of emphasis include diagnosis, repair, testing and periodic maintenance as recommended by major manufacturers. Classroom and shop time is utilized to develop skills in diagnosis and repair of clutches, drivelines and differentials.

AUTOTEC 10602154

Fluid Power Transmissions This automotive course focuses on developing the skills needed to diagnose, service and repair automatic transmissions/transaxles including overhaul procedures.

AUTOTEC 10602156

Study includes basic principles of refrigeration and air conditioning including the component parts that make up the A/C units on passenger cars and light trucks. Heating and automatic temperature controls are also studied. Students will receive State of Wisconsin AG 136.09 certification upon completion of this course.

AUTOTEC 10602157

Technical Braking Systems

Comfort Control Systems

Topics include principles of drum and disc brake designs, inspection and diagnosis. Covers wheel and tire diagnosis and repair. Steering and suspension safety inspection is covered. Lab experiences including inspecting, troubleshooting and the repair and replacement of defective or worn parts of the complete brake system. The use of correct procedure and tools is stressed.

AUTOTEC 10602158

The principles of various types of business organizations are examined and applied to automotive wholesale and retail businesses, ultimately focusing on the automobile as part of the service department. Service department operation is covered in detail and depth from large organizations to small organizations. The conventional line method of management is stressed. Employment possibilities and job interviewing techniques are discussed.

AUTOTEC 10602162

Automobile Accessories

Service Management

Examines equipment supplied by both major manufacturers of automobiles and after-market suppliers. Classroom and lab activities help students to understand basic electricity, electric circuits and use of test equipment to troubleshoot problems in circuits such as lighting, windshield wipers, power windows, instruments and cruise control.

AUTOTEC 10602163

Principles of suspension designs, wheel alignment angles, inspection procedures, parts replacement, steering systems, shock absorbers/struts, sway bars and frame design. On-the-job experiences include inspecting and correcting suspension angles, parts replacement, adjusting steering gears. Covers four-wheel alignment.

AUTOTEC 10602166

Powertrain Management Technology

Technical Suspension & Steering

All engine operating systems are studied; engine breathing, ignition systems, computer control and sensors, fuel and air management and emission systems. Students learn how these systems operate, how to test for proper operation of systems and components, and how to use test equipment.

BAKING 31314300

Baking Boot Camp 1 Credits/Units This course is required for all students accepted into the Baking/Pastry Arts program and is taken during the summer prior to their fall enrollment. This short course offers the students an introduction to the requirements and demands of the program and to a career in the baking industry. Students spend time in the classroom and baking lab, as well as participate in a required field trip to a bakery.

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2 Credits/Units

4 Credits/Units

5 Credits/Units

4 Credits/Units

2 Credits/Units

Effective: 2016-2017

3 Credits/Units

4 Credits/Units

4 Credits/Units

4 Credits/Units

5 Credits/Units

2 Credits/Units



BAKING 31314305 Chocolate

Students are introduced into the world of chocolate. The history and production of chocolate is discussed. Learners sample a wide variety of chocolates from different companies, as well as specific types of chocolate. Products are made using these different chocolates and then compared and evaluated. After learning to temper chocolate, both molded and hand dipped chocolates are produced.

BAKING 31314306

1 Credits/Units The lab is used as a simulated bakery in this course with products being merchandised through the bakery store. Students are responsible for service case presentation as well as effective merchandising displays and customer service.

BAKING 31314309

Students in this course will acquire a general understanding of basic baking principles. The functions of the major ingredients used in baking and pastry making are discussed, as well as the different types of bakery products. Students learn about the methods for producing bakery products as well as the equipment, both machine and hand tools required. Baker's math problems are calculated.

BAKING 31314315

Students develop a foundation of baking principles through hands-on application of production equipment in a state-of-the-art baking lab. Students will prepare a variety of standard bakery products to obtain knowledge of many baking processes. Safe use of bakery equipment and proper sanitation procedures are emphasized.

BAKING 31314325

Baking Lab 2 3 Credits/Units Students develop manual baking skills and a working knowledge of the production and finish of various straight yeast dough such as breads and rolls; sweet dough; pate choux, pastry cream, cheesecakes, and frozen desserts. Students learn both handcrafted and machine methods in the make-up of these products.

BAKING 31314335

This course covers all aspects of specialty cake baking, constructing, and assembly. Products include various types of foam cakes, creamed cakes, icings and fillings, along with dessert sauces, and plating techniques. European classic recipes as well as current trends in cakes will be demonstrated with lab time for practice. An assortment of miniature bakery products will be produced.

BAKING 31314345

Artisan Breads

Cakes

Bakery Retail

Baking Lab 1

Baking Principles

This course provides students with a working knowledge of the production of pre-fermented yeast doughs and sourdoughs. In addition, students produce Viennoiserie, both laminated such as croissant, Danish and Kringle, and non-laminated products as Brioche and Gibassier. Production methods and speed are emphasized. Cooked custards and crepes are also introduced.

BAKING 31314355

Bakery Production

The lab is used as a simulated bakery in this course with products being merchandised through the bakery store. Students make items with an emphasis on production speed to help understand the flow of a real bakery. Students are responsible for service case presentation as well as effective merchandising displays and customer service.

BAKING 31314375

Experimental Baking

Provides the opportunity to discover functions of ingredients through lab experiments. Ingredient amounts and procedures are varied in specific formulas and results are observed to determine optimum formulation.

BAKING 31314384

Cake Decorating

Provides students with hands-on practice in the basics of production cake decorating and decorative bakery work, with attention given to the techniques of icing cakes. Cake decorating areas include script, borders, drop and nail flowers, as well as the use of edible images. Students practice icing cakes and decorating them in a timely manner. Emphasis is placed on accuracy and speed of decorating to simulate industry conditions.

BAKING 31314388

Hands-on practice with advanced cake decorating techniques is provided. Rolled fondant, modeling with gum paste and marzipan, advanced air brushing and tiered cake assembly are covered.

BAKING 31314389

Baking Seminar Covers current and relevant issues related to baking and pastry arts. Guest professionals provide expertise and knowledge about specific areas in the baking industry. In depth research is conducted on selected topics. A research paper is required.

BIOFUELS 10484120

MADISON AREA | TECHNICAL LEGE Introduction to Biofuels

Advanced Cake Decorating

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

2 Credits/Units

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Effective: 2016-2017

An introduction to solid, liquid and gaseous fuels derived from all sources. This course will cover the history of fuel use, placing petroleum into its proper context of being just one of the many alternatives being exploited by humans to fulfill current demands. Topics include the history of fuel and petroleum, peak oil, economics of petroleum and biofuels, engine design and fuel requirements, agriculture and fuels, wastes, conventional ethanol production, cellulosic ethanol, algae, other alcohols (biobutanol, etc.), biodiesel, biogas (anaerobic digestion), gasification, pyrolysis, fuel quality, environmental impacts, energy independence and national security.

BIOFUELS 10484121

Introduction to Ethanol Fuel

This course will provide the student with a general overview of ethanol fuel. Topics covered will include fermentation and distillation chemistry, ASTM fuel testing, engine performance, and exhaust emissions. An introduction to E85 fuel systems will also be included.

BIOFUELS 10484130

Introduction to Biodiesel Fuel

This course will provide a general overview of biodiesel fuel. Production and guality control of biodiesel fuel will be explored, and students will have the opportunity to synthesize a small scale batch of biodiesel. Topics covered will include transesterfication chemistry, separation techniques, ASTM fuel testing, engine performance, and exhaust emissions.

BIOFUELS 10484160

Introduction to Biomass Energy (Online)

This course provides an overview of energy production from biomass resources. The course explores the fundamentals of plant growth, energy yield, economics, production, and processing methods for both herbaceous and woody crops. Technologies covered include combustion, gasification, pyrolysis, fermentation, transesterfication, and anaerobic digestion. Value-added bio-refining products are also examined, along with the environmental impacts of biomass energy.

BIOFUELS 10484161

Anaerobic Digestion and Biogas Technology 1 Credits/Units Provides participants with an understanding of basic heat transfer properties as well as the biological and chemical reactions that take place in anaerobic digestion systems. Participants will also develop an in-depth knowledge of the design of anaerobic digestion systems, troubleshooting and repair methods, and workplace safety.

BIOLOGY 10806105

Principles of Animal Biology is an introductory biology course focusing on general biological principles, cell structure and function, genetics, comparative anatomy and physiology, evolution, and ecosystems. It includes dissection of various fresh and preserved materials.

BIOLOGY 10806177

Gen Anatomy & Physiology This course examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems

Introductory Zoology

Principles of Animal Biology

approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization, of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients.

BIOLOGY 20806203

This introductory course covers general biological principles with an emphasis on cell structure and function, genetics, and vertebrate anatomy and physiology. Consideration is also given to diversity within the animal kingdom and environmental interactions. It includes three periods of lecture per week, two periods of laboratory and a one-period discussion session.

BIOLOGY 20806204

Biological Greek and Latin Terminology

Introductory course designed to provide students with a knowledge of biomedical terms and their related anatomy and physiology. Course will describe how scientific terms can be systematically analyzed and defined with an understanding of Greek and Latin word parts. Provides an understanding of anatomy and physiology that will help students interpret biomedical terminology.

BIOLOGY 20806206

General Anatomy and Physiology

General Anatomy and Physiology features lectures and laboratory dealing with the human body as an integrated structural and functional unit, including the circulatory, respiratory, digestive, excretory, reproductive, nervous, endocrine, muscular and skeletal systems, in addition to cell structure and physiology. It includes dissection of fresh and preserved material as well as examination of a human cadaver. This course is not acceptable in programs requiring two semesters of Anatomy and Physiology. General Anatomy and Physiology is a one semester course. Students in programs that require two semesters of anatomy and physiology should take Anatomy and Physiology 1, 20-806-207 and Anatomy and Physiology 2, 20-806-208. Introductory college-level biology course recommended.

BIOLOGY 20806207

Anatomy and Physiology 1

Features lectures and laboratory dealing with the human body as an integrated structural and functional unit, including basic anatomical and directional terminology, fundamental concepts and principles of cell biology, histology, integumentary, skeletal, muscular, endocrine, and nervous systems, and the special senses. It includes dissection of various fresh and preserved materials as well as examination of a human cadaver. This course is the first semester of a two-semester sequence. College-level chemistry is recommended. Introductory college level biology course recommended.

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Effective: 2016-2017

3 Credits/Units

1 Credits/Units

1 Credits/Units

4 Credits/Units

4 Credits/Units

5 Credits/Units

3 Credits/Units

4 Credits/Units

BIOLOGY 20806208

Anatomy and Physiology 2

Botany

4 Credits/Units Anatomy and Physiology 2 features lectures and laboratory exercises dealing with the human body as an integrated structural and functional unit including the cardiovascular system, lymphatic system and immunity, respiratory system, digestive system and metabolism, urinary system, fluid/electrolyte balance and acid/base balance, and reproductive system. It includes dissection of a cat as well as examination of a human cadaver. Note: this is the second semester course of a two-semester sequence and is not acceptable where a one-semester Anatomy and Physiology course is required.

BIOLOGY 20806215

Plant science deals with a wide variety of organisms that are of great interest and are basic to our survival. These organisms are viewed from various perspectives-taxonomic, physiological, ecological, etc.--in hopes of developing an overall understanding and appreciation of their value and beauty. This course emphasizes taxonomy and evolution, physiology, anatomy and ecology. A survey of plants and plant-like organisms is presented.

BIOLOGY 20806226

This is an introductory course designed for students who want a laboratory science, but are not majoring in biology. It emphasizes the structure of the human body and the functional interrelationships of the body's systems. Consideration is also given to human genetics, human evolution, ecology, and the role that humans play in the environment. This course includes three hours of lecture per week, two hours of laboratory and a one-hour discussion session. Note: this course does NOT meet the requirements for 20-806-207 or 208, Anatomy and Physiology 1 or 2, or 20-806-206, General Anatomy and Physiology.

BIOLOGY 20806262

Anatomy and Physiology for Exercise Lab

Anatomy and Physiology for Exercise Lab is designed to provide a hands-on learning environment where students master the basic structure and function of the respiratory, cardiovascular, skeletal, nervous, endocrine and muscular systems and relate those systems to exercise. Students will also learn basic nutrition principles. The course is designed to be a co-requisite of Body Structure and Function for students pursuing a Fitness/Health Club Specialist Certificate.

BIOLOGY 20806271

Cellular and Molecular Biology

Introduction To Human Biology

This course addresses concepts in cellular and molecular biology, genetics and mammalian anatomy and physiology.

BIOLOGY 20806272

Organismal Biology

General Microbiology

Environmental Issues

This course addresses concepts in evolution and diversity of organisms, plant anatomy and physiology, and ecology.??? The Biology courses, BIO 271 and BIO 272 can be taken in any sequence. Students that take 272 before 271, should learn about the independent projects, which are writing intensive and provide Communication B credit at UW -Madison.

BIOLOGY 20806273

Microbiology-University Medical

Microbiology addresses pathogenic and normal flora microbes (bacteria, fungi, parasites, and viruses), their structure and function, metabolism, nutrition, genetics, growth and their relationship to humans and the environment. This course examines human infectious disease including general diagnosis and treatment, transmission, host defense mechanisms, and processes used to control the growth and spread of infectious agents. This course includes an introduction to standard techniques and procedures used in the microbiology laboratory.

BIOLOGY 20806274

General Microbiology gives a broad overview of the structure, function, ecology, nutrition, Physiology and genetics of microorganisms. The course looks at the many roles microorganisms play in our lives; this includes their associations with various diseases (including cancer) and their many beneficial attributes, such as industrial fermentation and recombinant DNA technologies.

BIOLOGY 20806280

Environmental Issues is an introductory (non-laboratory) survey course entirely appropriate for first-year students. Environmental Issues explores diverse problems of human impact on natural systems. Though fundamentally grounded on the basic principles of biology and ecology, this course is designed to encourage interdisciplinary thinking about critical environmental problems. Students explore chemical, biological, political and ethical interactions of environmental systems on scales that range from local to international. The course prepares students for Principles of Ecology and other more advanced courses in Environmental Studies. This course transfers to UW-Madison at the elementary level.

BIOLOGY 20806281

Ecology/Conservation Biology

Ecology and Conservation Biology is an intermediate-level (non-laboratory) course, most appropriate for second-year students. A basic knowledge of ecosystem structure and function is used as a springboard to grasping the impact of human activities on natural populations. Emphasis is on computer modeling of endangered species, dwindling populations of endemics, species under threat of over-harvesting, and other groups at risk. This course requires the background knowledge of an introductory environmental science course. This course transfers to UW Madison at the intermediate level as Zoology/Wildlife Ecology 360. Offered during the fall semester.

BIOLOGY 20806286

Environmental Science

4 Credits/Units

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Effective: 2016-2017

5 Credits/Units

1 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

3 Credits/Units

Environmental Science is an introductory survey course appropriate for first-year students. This course includes a laboratory component and field trips designed to engage students in exploring environmental systems in the modern world. It emphasizes the interpretation of environmental data presented in graphs and figures and will sharpen student analytical skills through exercises based on both quantitative reasoning and reading comprehension. This course transfers to UW-Madison at the elementary level as IES 126.

BIOTECH 10007103 Biotechnology Laboratory Skills for a Regulated Workplace 3 Credits/Units Covers basic concepts and techniques necessary to work effectively in a biotechnology lab. The importance of quality regulations

and standards and the role of the technician in producing quality results are emphasized. Laboratory math is introduced and applied. Students learn basic techniques including: measuring, weighing, mixing solutions, following and writing procedures, keeping records, making observations, and using instrument manuals and catalogues. Principles of metrology (measurement) are introduced and students practice using, calibrating and verifying the performance of instruments. Lab included. Co-requisite: 10-806-127 or 10-806-134, and 10-007-136 or consent of instructor.

Chromatography Techniques BIOTECH 10007104

Bioprocess Technology

Biotechnology Applications

Biotechnology Career Seminar

General Cell Biology

Introduces the basic concepts involved in separation of biomolecules. Students complete lab work using a variety of chromatographic methods including: paper, thin layer, gel permeation, gas and high performance liquid chromatography. Students also learn to interpret chromatographic results and practice documentation and reporting skills. Lab included.

BIOTECH 10007105

Covers basic techniques of fermentation technology, including the principles of isolation, identification, improvement, preservation and growth of industrial microorganisms. Emphasizes the use of fermentation equipment to obtain products.

BIOTECH 10007108

Hazardous Materials - Biotechnology Surveys potential laboratory hazards and safety procedures. Covers regulation of chemicals: flammable, reactive, corrosive and toxic substances.

BIOTECH 10007110

Provides a broad introduction to biotechnology including the scientific basis of the technologies and their historical development with an emphasis on current applications in the areas of agriculture, medicine, forensics and the environment.

BIOTECH 10007111

Includes a discussion of national, state and local biotechnology industries, career options, the ethical, legal and societal issues raised by the use of biotechnology and the regulatory agencies that oversee the industry.

BIOTECH 10007112

Biotechnology Employment Skills Discusses the specific skills needed for particular areas and careers, ethical issues and the business of biotechnology including the basics of intellectual property law. Each student gives a presentation on their occupational work experience.

BIOTECH 10007115

Introduction to cells, emphasizing their structure, diversity, chemistry and physiology. Processes of cellular respiration, photosynthesis and division are discussed. Describes genetic principles and molecular activities involved in DNA, RNA and protein synthesis. Lab included.

Introduction to Human Stem Cell Methods

BIOTECH 10007116

Covers the basic methods of working with mammalian cell culture, to include aseptic techniques, media preparation, passaging and maintenance of cell lines. Students will work with hESC cultures to thaw, plate, feed, passage cells, and generate embryoid bodies. Molecular characterization includes chromosomal staining and immmunodetection and imaging of cell pluripotency markers. Instruction will include imaging, including light, fluorescence, and photomicroscopy. Using cultured cells in a regulated environment will be introduced. Prerequisite: General Cell Biology, 10-007-115, and Chromatography, 10-007-104, or consent of instructor.

BIOTECH 10007117

Advanced Human Stem Cell Methods Students will continue to maintain and characterize the hESC embryoid bodies generated in Course I. Observations and relevance for spontaneous hESC differentiation will be discussed in detail. Methods for directed differentiation of hESC, iPSC, and adult stem cells into neurons and cardiomyocytes will be introduced. An emphasis on photo-documentation and assembly of a portfolio of results and observations will be submitted for evaluation.

BIOTECH 10007118

Introduction to Human Stem Cell Concepts 1 Credits/Units Provides an historical perspective on the identification and use of stem cells, emphasizing practical applications towards regenerative biology in research and industry. Review and discuss scientific articles that establish the foundation for working with stem cells for regenerative medicine, applied and basic research. Prerequisite: General Cell Biology, 10-007-115, or consent of instructor.

BIOTECH 10007119

Advanced Human Stem Cell Concepts

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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

Introduction of emerging methodologies in the stem cell field, to include adult stem cells, iPSC technologies, relevant cell signaling pathways, and cell differentiation. Current research and industry applications will be discussed. Survey the scientific and popular press to introduce emerging themes and applications in the field of stem cells. Prerequisite: Introduction to Human Stem Cell Concepts, 10-007-118, and General Cell Biology, 10-007-115, or consent of instructor.

BIOTECH 10007121

Introduction to major chemical constituents of cells including proteins, carbohydrates, lipids and nucleic acids. The structure and kinetics of enzymes, reaction mechanisms and metabolic pathways are also included. Lab included.

BIOTECH 10007122

Protein Bioseparations Methods

Applied Biochemistry

Molecular Biology 1

Introduces the strategies to purify proteins as part of a biotechnology process. Methods include: specific activity assays for enzymes, extraction of proteins from bacterial cells, salting out, dialysis, ion exchange chromatography and polyacrylamide gel electrophoresis. Lab included. Prerequisites: Biotechnology Labatory Skills, 10-007-103; Chromatography Techniques, 10-007-104; and Chemistry 2, 10-806-129 (or Chemistry for Biotechnology, 20-806-216); or consent of instructor.

BIOTECH 10007123

Cell Culturing Covers the basic techniques of plant and animal cell culture. Plant unit includes media preparation isolation of explants and establishment of callus from suspension cultures, growth factor bioassays, regeneration of whole plants from tissue and plant genetic engineering techniques. Mammalian cell unit includes media preparation, maintenance of cultured cells, transfection of cultured cells, cloning, monoclonal antibody production, and ELISA assays. Lab included. Prerequisite: 10-007-115 or consent of instructor.

BIOTECH 10007124

Introduces modern molecular biology techniques including basic recombinant DNA techniques and nucleic acid analysis and purification. The polymerase chain reaction, DNA sequence analysis, and DNA fingerprinting are also covered. Lab included. Prerequisite: 1-007115 General Cell Biology, or consent of instructor.

BIOTECH 10007125

Research Methods in Molecular Biology Surveys advanced techniques in molecular biology including Southern analysis, and RNA purification and analysis. The course blends discussion of concepts with practical laboratory experience. Lab included.

BIOTECH 10007126

Occupational Work Experience

Students work in a biotechnology laboratory. Emphasizes the integration of academics and practice experiences. Pre-requisite: successful completion of all program courses in the first three semesters of the program, or consent of instructor and successful completion of a performance exam.

BIOTECH 10007136

Laboratory Math for Biotechnology

This course introduces mathematical tools that are used in the biotechnology laboratory. Students apply mathematical concepts to solve problems such as: calculating amounts of chemicals required to make solutions, graphing and interpreting data, and calibrating instruments. Basic statistical concepts may also be introduced.

BIOTECH 10007152

Making Biotech Products in a Quality Environment

Proposed to review and further illustrate the importance of quality in a laboratory environment, with special emphasis on how a guality system directly impacts laboratory scientists. This laboratory-based course will revolve around the creation of a product to be used in other courses in the biotechnology curriculum. Students will create the product, as well as monitor the quality of the process. Time constraints would mean that not every aspect of a quality system could be modeled or discussed; however, even a single course in this area would be invaluable to our students for both review of concepts and employability.

BIOTECH 10007155

Quality Regulations and Standards for Biotechnology

This course will cover the history of quality systems (cGMP, GLP, GCP, ISO 9000) and their implementation in the workplace. Emphasis will be placed on the impact of these quality systems on the laboratory technician. Students will also have the opportunity to study regulations and examine the process of disciplinary action under these systems. Current case studies will illustrate the role of governmental and non-governmental oversight in ensuring the quality of the products of regulated workplaces.

BIOTECH 10007174

This survey course includes the structure, function, ecology, nutrition, physiology, and genetics of microorganisms in industrial, agricultural, food and medical microbiology. It also includes an introduction to standard techniques and procedures used in the microbiology laboratory.

BIOTECH 10007180

MADISON AREA | TECHNICAL :01 I FGF Intro to Bioinformatics Biotechnology

Applied Microbiology

3 Credits/Units

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3 Credits/Units

3 Credits/Units

1 Credits/Units

2 Credits/Units

4 Credits/Units

2 Credits/Units

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

This survey course is an introduction to the concepts and tools used in bioinformatics. The fundamentals of sequence alignment, data mining and next generation sequence analysis will be discussed. This course will also provide the student with an introduction to the web-based tools used by molecular biologists. Students will gain an appreciation for a wide-range of bioinformatics techniques including homology searching, sequence comparison, sequence identification, and analysis of next generation sequencing data. Students will use these skills to contribute to a world-wide effort to identify and annotate a flood of previously unknown sequences generated by metagenomics efforts.

BRCKMSN 50408510

This course description is unavailable at this time. Please contact the center offering the course for more information.

BRCKMSN 50408511 Tech Brick Sem 2 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

BRCKMSN 50408512

Tech Brick Sem 3 This course description is unavailable at this time. Please contact the center offering the course for more information.

Tech Brick Sem 4

Tech Brick Sem 6

Business Statistics

Business Communication

Strategic Leadership

Tech Brick Sem 1

BRCKMSN 50408513

This course description is unavailable at this time. Please contact the center offering the course for more information.

BRCKMSN 50408514 Tech Brick Sem 5

This course description is unavailable at this time. Please contact the center offering the course for more information.

BRCKMSN 50408515

This course description is unavailable at this time. Please contact the center offering the course for more information.

BUSADM 10102104

Introduces the theory of and application to basic statistical methods. Emphasizes solving practical business problems. Topics include basic measures, probability, sampling and time series analysis. Knowledge of Excel strongly recommended.

BUSADM 10102114

Primary focus is on developing advanced interpersonal communication skills. Topics include: effective listening, conveying ideas concisely and persuasively, and adapting one's communication style to best connect with others. Managerial applications are emphasized; examples include: successfully managing difficult ("crucial") conversations while avoiding destructive conflict, customer-facing interactions (such as complaints), business networking, negotiation tactics, and key employee interactions: performance reviews, setting SMART Goals, and disciplinary conversations. The course requires extensive "field work" to apply the concepts learned in class to the real world.

BUSADM 10102132

This capstone course for the Business Management program is designed to integrate and enhance skills and behaviors learned throughout the curriculum. Students gain insights from key leadership experts related to leading oneself, others, and organizational change, and apply these insights through an In-Box simulation where they are responsible for all aspects of "turning around" a failing business. A computer business simulation, where students compete against each other, reinforces learnings from prior courses and enhances an overall business perspective. Course includes an exercise in deep self-reflection, designed to build student resolve and ability to be a "high-integrity" ethical leader.

BUSADM 10102133

Topics in Tactical Management

Focuses on refining and building students' operational management skills. The use of data analysis and research tools to solve business problems and improve performance is emphasized. Students learn tools to "listen to the customer" and use data to recommend strategies and tactics to improve and exceed customer expectations. The course explores quality systems and continuous improvement tools including Lean, Six Sigma, ISO, CQI, with an emphasis on their application to improve business processes.

BUSADM 10102134

Business Organization, Management, and Ethics

This foundation course covers core concepts related to business strategy, marketing, operations and finance, as well as their interrelationships within an organization. Case studies and a computer business simulation are used to deepen student understanding. Corporate culture and the International dimension of business are also covered. An Ethics framework, which will be further explored in upper-level Program classes is introduced, along with a focus on the means businesses use to promote and enforce ethical behavior.

BUSADM 10102135

Project Management - Fundamentals

3 Credits/Units



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2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Real world smart.

Effective: 2016-2017

Real world smart.

Madison Area Technical College

This is introductory Project Management class develops skills to manage a project from start to finish using the following project management skills: defining projects; planning projects; scheduling projects; monitoring and controlling projects; project closure; and leading projects. Emphasis will be placed on applying these fundamentals, as both a participant and project leader, in case studies and group projects, using worksheet templates, project software tools and Microsoft Project software. Skills covered include but are not limited to project charters, Gantt Charts, critical paths, milestones, risk control and prioritization, project acceptance and closeout, teamwork and problem solving.

BUSADM 10102143

Focuses on the two keys to effective management: results and relationships, in the context of the traditional managerial elements of planning, organizing, directing and controlling. Students learn techniques for problem solving, critical thinking, decision-making, delegation, motivation, change management, and political savvy behavior, and apply these techniques through simulations, roleplays, and case studies. The course also emphasizes development of Emotional Intelligence ("EI"), including self-assessment, as well as learning and applying specific techniques to improve each element of EI.

BUSADM 10102150 Introduction to International Business 3 Credits/Units Provides a basic understanding of the forces that affect business in an international environment. The following forces will be

explored: economic theories, financial, dynamics of organization, socio-economics, physical, socio-cultural, political, legal, labor, and import/export practices. Sixteen different countries will be reviewed for influences on their business economy.

BUSADM 10102160

This survey course covers legal principles used in the business world. Major emphasis is placed on contracts along with torts, federal and state courts, criminal law, marital property and bankruptcy and wills. The course is taught on a level suitable for an associate degree student. Federal, state and case law serve as the basis of study.

CABMIL 31409330

Introduces the learner to the operation of traditional woodworking equipment. Students perform numerous exercises to gain familiarity with portable power tools and industrial woodworking machinery while building their skills and familiarity with wood. Units include layout, sawing, surfacing, boring, sanding and assembly.

CABMIL 31409331

Building on skills acquired in Woodworking 1, students incorporate an understanding of wood as a material to properly execute

CABMIL 31409332

5 Credits/Units Planning and execution of cabinet, millwork and furniture projects are explored in this class. Standards for kitchen cabinetry and design are applied as students work together in teams on a group project. Additional areas of study include: jigs and fixtures, 32mm cabinetmaking and leg and rail furniture.

CABMIL 31409333

Preparation for employment is emphasized in the final quarter of this program as students propose and execute projects of their choice. Students have the opportunity to experience a real work environment while completing an internship with an area employer. Areas of exploration include veneering, CNC technology and curved and circular work.

CABMIL 31409337

A safe working environment is not only essential, it is the law. This course covers several key areas of OSHA workplace safety, including: proper procedures for locking out and tagging equipment to be serviced, HASCOM (Hazardous Materials Communication), PPE (Personal Protective Equipment) and proper machine guarding.

CABMIL 31409340

Tool & Machine Maintenance Proper maintenance is essential in order to obtain accurate and repeatable results. This course focuses on keeping machinery in proper working order and maintaining sharp cutting tools. Students learn to troubleshoot problems and to establish routine maintenance procedures.

CABMIL 31409341

Finishing is both an art and a science. This course demystifies the process of finishing wood and explores the materials used. Hand applied, brushed and sprayed finishes will be covered. Proper finish selection and safe use of finishes is emphasized.

CABMIL 31409342

Introduces the student to the field of countertop fabrication. Plastic laminates are emphasized. Students learn about selecting proper grades and textures of plastic laminate, types of adhesives, and methods of application to secure laminate. Students also have the opportunity to experience Solid Surface (Corian) application techniques while producing their own countertop sample.

CABMIL 31409345

MADISON AREA | TECHNICAL COLLEGE

Wood Finishing 2

Wood Finishing 1

Countertops and Surfaces

1 Credits/Units

1 Credits/Units

2 Credits/Units

1 Credits/Units

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1 Credits/Units

3 Credits/Units

3 Credits/Units

5 Credits/Units

Management Techniques

Business Law 1

Woodworking 1: Machinery & Methods

Woodworking 2: Materials and Processes 5 Credits/Units joinery and cabinetry projects. Instruction includes units in shaping, adhesives, joinery and face-frame cabinetry.

Cabinetmaking, Millwork & Furniture 1

Workplace Safety

Cabinetmaking, Millwork, and Furniture 2

Building upon principles covered in Wood Finishing 1, this course will further explore the application of finishes, including wash coats, glazes and other multi-step finishes. In addition, this course will expose the learner to methods for color matching and repairing damaged finishes.

CABMIL 31409385

Drawing is essential for guickly and accurately communicating three-dimensional ideas. This class will introduce the learner to drawing and estimating as they relate to woodworking occupations. Areas of instruction include sketching techniques, orthographic and isometric projection, drafting, estimating materials and costs, and an introduction into computer-aided drafting (CAD).

Drawing - Cabinetmaking and Millwork Program

CABMIL 31409386

AutoCAD for Cabinet Drawing

Expanding on concepts introduced in Drawing in the first semester Drawing course. This class builds competence in using CAD as a tool to communicate. Kitchen planning and cabinet design are emphasized. Students learn to develop working drawings and details for cabinet, millwork and furniture projects.

CARP 31410301

This course provides instruction in the fundamentals of floor, wall, ceiling and roof framing. A variety of building methods are discussed in the context of current understanding of how buildings work and why they fail.

Introduction to Construction

CARP 31410302

Plans, Site and Formwork

This course provides instruction in interpretation of plans, specifications and building codes, site preparation, the layout of footings and foundations and setting concrete forms.

CARP 31410308

Construction Industry Codes and Regulations

Units of instruction include zoning requirements, residential and commercial building codes, sanitary regulations, permit applications, building permits and inspection procedures. Contract documents and office practice are also discussed.

CARP 31410309

This course provides instruction in the interpretation of construction drawings and documents. Specific areas of emphasis include architectural scale, symbols, abbreviations and specifications, and how drawings are translated to create the built world. Areas of drawing instruction include sketching techniques, orthographic projection, and isometric drawings.

CARP 31410310

Materials and Estimating 2

Plan Reading and Drawing

This course builds on material and estimating skills learned in Materials and Estimating 1. Students will create estimates using Excel spreadsheets. In the capstone project, students will create a bid for building one of the student project homes. The bid will then be used as the basis of a sales presentation delivered to professionals from the home building industry.

CARP 31410311

Commercial Construction

This course focuses on construction techniques and materials that are used primarily in commercial construction settings. Students will frame with steel, install metal framed doors, erect concrete forms and install suspended ceilings. Entry into apprenticeship and other commercial construction career pathways will be explored.

CARP 31410324

Remodeling Techniques

Construction Techniques 2

Explores the differences between new building construction and remodeling existing buildings. Topics covered include site protection, safe demolition techniques, lead and asbestos hazards, removing existing walls, replacing windows and doors, and tying into the existing structure.

CARP 31410328

Construction Techniques 1 This course continues instruction on roof framing and introduces installation methods for roof shingles, windows and doors, soffits and fascia, exterior trim and siding. Basic stair construction is also included. Building science topics of insulation, drainage planes and greener building techniques are also discussed.

CARP 31410329

This course emphasizes interior finish including, but not necessarily limited to, installing wall board, hanging interior doors, installing interior trim, installing kitchen and bathroom cabinets, and completing a punch list.

CARP 31410335

Intermediate Carpentry Lab Students will practice carpentry skills learned in Introduction to Construction and Construction and Remodeling Techniques 1. They will continue to work, under faculty supervision, on the sheds and the home that they began in the fall semester. They may also complete a small remodeling project. Carpentry tasks will include framing, roofing, window and door installation and exterior finishing. Students who successfully complete this practicum with a grade of B or better will receive an additional Golden Hammer credential upon graduation.

CARP 31410337

Workplace Safety

2 Credits/Units

Effective: 2016-2017

2 Credits/Units

5 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

5 Credits/Units

5 Credits/Units

2 Credits/Units

1 Credits/Units

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This course will cover several key areas of OSHA workplace safety, including: erection of ladders and scaffolds, HASCOM (Hazardous Materials Communication), selection and use of PPE (Personal Protective Equipment), proper machined guarding, and prevention of slips, trips and falls.

CARP 31410345

Materials and Estimating 1 1 Credits/Units This course introduces students to using building plans to create materials and labor estimates. Material selection and methods for calculating labor rates will also be covered.

CARP 31410363 **Building Science and Sustainability** 1 Credits/Units In order to design and build quality, energy efficient and resource efficient homes, it is important to understand the interaction of building systems. In this course, students explore the structural, HVAC, electrical and plumbing systems in a home and how their performance can be measured and optimized to create sustainable homes.

Construction Drawing - Construction and Remodeling Program 1 Credits/Units CARP 31410385 In this course, students create three dimensional building models using Sketch Up and a building information modeling software such as Chief Architect. Those models will then be used to create construction documents.

CARP 31410399

Fundamentals Of Construction 3 Credits/Units This course provides an introduction to the identification, safe use and care of hand and portable power tools. Lab work includes the construction of sawhorses using techniques learned in class.

CARP 50410593

Tech Carpentry Semester 1 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

CARP 50410594 2 Credits/Units **Tech Carpentry Semester 2** This course description is unavailable at this time. Please contact the center offering the course for more information.

CARP 50410595	Tech Carpentry Semester 3	2 Credits/U
This course description is unavailable at	t this time. Please contact the center offering the course for m	ore information.

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CARP 50410596 This course description is unavailable at this time. Please contact the center offering the course for more information.

CARP 50410597 **Tech Carpentry Semester 5**

CARP 50410598

Tech Carpentry Semester 6 This course description is unavailable at this time. Please contact the center offering the course for more information.

CHEM 10806127

The first of a two-semester sequence. Chemistry 1 gives the fundamental concepts of inorganic chemistry that includes the topics of measurement, chemical nomenclature, chemical reactions and stoichiometry, atomic structure, thermochemistry, chemical bonding and solution chemistry. It emphasizes the basic principles and quantitative measurements used on chemistry. It consists of three hours of lecture and one, two-hour laboratory period per week. This course is not intended for transfer.

CHEM 10806129

Chemistry 2

Chemistry 2 is the continuation of 10-806-127. Further study of basic chemical principles including chemical kinetics and equilibria, acid/base chemistry, and electrochemistry. It introduces properties, structures, and reactions of organic compounds. Elementary aspects of biochemistry are considered.

CHEM 10806134

General Chemistry This course covers the fundamentals of chemistry. Topics include: the metric system; problem solving; periodic relationships; chemical reactions; chemical equilibrium; acids bases and salts; and gas laws.

CHEM 10806178

Covers a wide range of topics including inorganic and organic. Topics included during the inorganic portion of the course included measurements and conversions, matter and the kinetic molecular theory, periodic table, chemical bonding, chemical reactions, solubility, gases, problem solving and solutions, equilibrium and acid-base behavior. The organic chemistry portion introduces chemical structure as well as physical and chemical behavior of organic molecules. Many of these topics are related to the field of animal science. Basic laboratory skills and techniques are emphasized.

CHEM 20806200

Liberal Arts Chemistry

Life Science Chemistry

4 Credits/Units

5 Credits/Units

Effective: 2016-2017

/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

4 Credits/Units

4 Credits/Units

5 Credits/Units

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Chemistry 1

Tech Carpentry Semester 4

This course description is unavailable at this time. Please contact the center offering the course for more information.

This course is designed for non-science majors seeking a one-semester chemistry course to fulfill the college-level lab science requirement. It consists of four hours of lecture, a two-hour laboratory and a one-hour guiz section each week. Emphasis on application of chemical concepts to phenomenon observed in everyday life, technology, and related social issues. Includes discussion of measurement, classifying matter, physical and chemical changes, chemical symbols, writing equations, atomic structure, nuclear changes, periodicity, states of matter, chemical bonding, the mole, solutions, acids and bases, redox reactions, fossil fuels and the history and methodology of chemistry. This course is not acceptable as a replacement for Gen Organ & Biol Chemistry, 20-806-201, or College Chemistry, 20-806-209. Recommendation: high school algebra with a "C" or better.

CHEM 20806201

General, Organic & Biological Chemistry

This course covers a broad range of topics suitable for many allied-health fields. Topics covered during the general chemistry portion of the course include measurement, problem solving, periodic table, chemical reactions, radioactivity, gases, solutions and acid-base behaviors. The organic chemistry portion introduces the structure and chemical behavior of major types of organic molecules. Also introduces the structure and function of major biological molecules such as carbohydrates, lipids and proteins. Although suitable for many programs, this course will generally not substitute for College Chemistry 1 if a program specifically requires that course or its equivalent.

CHEM 20806209

College Chemistry 1

The first semester of a two-semester sequence in college chemistry that includes the topics of measurement, chemical nomenclature, chemical reactions and stoichiometry, atomic structure, gas laws, thermochemistry, chemical bonding and solution chemistry. This course is for students who need one or two semesters of what is typically considered freshman college chemistry. Laboratory work assists in understanding chemical concepts and developing problem-solving skills. Students may complete the year of general college chemistry with 20-806-212.

CHEM 20806212

College Chemistry 2 College Chemistry 2 is a continuation of 20-806-209. This course covers the principles and applications of organic chemistry, reaction kinetics, equilibrium, thermodynamics, electrochemistry, coordination compounds, nuclear chemistry and environmental chemistry. Lab activities explore traditional analytical chemistry techniques, making extensive use of computer-assisted data analysis. This course involves rigorous quantitative problem solving, and a solid mathematics background is recommended.

CHEM 20806213

Organic Chemistry 1

Organic Chemistry 2

Organic Chemistry 1 is the first semester of a two semester organic chemistry sequence. It includes the electronic structure and bonding of atoms and molecules; stereochemistry; acids and bases; oxidation and reduction; the nomenclature, reactions, and properties of the following classes of compounds - alkanes, alkenes, alkynes, alkyl halides, alcohols, ethers, and epoxides. Also included are the theory and interpretation of IR spectrophotometry and mass spectrometry. This course includes a three hour per week laboratory component as well as four hours per week lecture/discussion.

CHEM 20806214

Organic Chemistry 2 is a continuation of Organic Chemistry 1. It includes the theory and interpretation of NMR and UV-VIS spectrophotometry; the nomenclature, mechanisms, reactions and properties of alkadienes, aromatic, aldehydes, ketones, enols/enolates, carboxylic acids, carboxylic acid derivatives, amines, aryl halides, and phenols. It includes a three hour per week laboratory component as well as four hours per week lecture/discussion.

CHEM 20806216

Chemistry for Biotechnology

This course is meant to serve as a review of foundational general chemistry to help comprehension of chemical topics encountered in biotechnology. As such it includes topics in organic chemistry and intermolecular interactions, kinetics, chemical equilibrium, including acid/base and buffer equilibrium, oxidation-reduction reactions, and basic thermodynamics. The lab portion will emphasize the relation of topics to laboratory experiments.

CHEM 20806290

Renewable Energy for International Development

Renewable Energy for the Developing World provides an examination of energy and economics in developing countries with special consideration given to renewable energy sources. The course combines 8-weeks of online instruction with 10 days of travel and study abroad in Costa Rica. Students will learn to specify, design, and install renewable energy systems for the developing world. Students will install operational renewable energy systems in the field with current renewable energy equipment.

CHINESE 20802230

Introduction to Mandarin Chinese "Introduction to Mandarin Chinese. This course will introduce students to the fundamental phonetic system and grammar of standard spoken Chinese and written language including 400 Chinese characters. This course will teach modern standardized simplified

Chinese characters rather than the more complex traditional characters. The course will meet for four hours each week for three credits."

CHINESE 20802231

Introduction to Mandarin Chinese 2

This course builds on the introduction to the fundamental phonetic system and grammar of standard spoken Chinese and written language and Chinese characters provided in Introduction to Mandarin Chinese I. This course will teach modern standardized simplified Chinese characters rather than the more complex traditional characters. The course will meet for four hours each week for three credits.



Effective: 2016-2017

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Real world smart.

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2 Credits/Units **CIVILET 10607120** Methods In Civil Engineering An introductory engineering course that familiarizes students with the civil engineering and construction processes from project concept to completion. Provides new students opportunity to develop and improve their problem-solving skills and prepare for subsequent technical courses.

Intro To Cad Civil Engineer

Estimating

Civil Drawing 1

Civil Drawing 2

Survey 1

Survey 2

Soils

Aggregates And Concrete

CIVILET 10607125

This course introduces computer aided drafting (CAD) and will utilize software related to civil engineering design. This course will focus on: basic drawing techniques, creating and editing objects and text, proper utilization of layers, and creating blocks and templates.

CIVILET 10607133

Stresses estimating for general civil engineering work. Covers the preparation of detailed estimates as prepared by contractors for bidding purposes, the general estimate as prepared by engineers, and approximate estimates. Areas covered: highways, water and sewer lines, bridges, culverts, streets and general construction grading. Prerequisite: 10-607-177, fourth-semester standing or consent of instructor.

CIVILET 10607147

Emphasis on development of graphical communication. Begins with basic manual drafting skills including line work, lettering, drafting tools use and free hand sketching of construction details. Transition in the last half of the semester to a CAD-based environment stressing geometric construction principles and simple engineering drawings.

CIVILET 10607148

Applications-oriented class with CAD emphasis. More complex drawing projects including mapping, roadway design elements and structural detail applications. Drawing organization and standards, data conversion and sharing, third-party add-ins. Prerequisites: 10-607-147 and 10-607-156.

CIVILET 10607149

Introduces the fundamental principles of aggregates, Portland cement concrete and bituminous concrete. Emphasizes standardsbased sampling and testing in laboratory and field environments. Tests are performed according to standards set by the American Society for Testing and Materials (ASTM) and American Association of State Highway and Transportation Officials (AASHTO). Students communicate results in written reports. Prerequisites: 10-804-114, and 10-103-137.

CIVILET 10607155

Basic measurement concepts, procedures, errors and computations underlying the technical aspects of surveying. Students use modern instrumentation to perform elevation, distance, and angular measurements. Coordinate geometry is introduced as a computational tool. Computations are done both manually and on computer using commercial software.

CIVILET 10607156

Principles, computations and field methods, from design to stakeout, involved in three-dimensional curvilinear survey applications. AASHTO and WisDOT vertical and horizontal alignment standards; geometric and volumetric calculations. Field work reflecting different construction surveys are performed utilizing modern instrumentation. Prerequisite: 10-607-155. Corequisites: 10-607-147 and

10-804-116.

CIVILET 10607158

Survey 3 Advanced concepts and procedures building on knowledge and skills attained in previous surveying classes. Concepts include geodetic applications, spatial reference systems, equipment adjustment, digital data collection and photogrammetry. Fieldwork includes total station calibration, control leveling, control network establishment and digital topographic data collection. Prerequisites: 10-607-156 and 10-607-147.

CIVILET 10607160

Introduces the basic principles of soil mechanics and their application in engineering practice. Topics include soil composition and texture, subsurface investigation, classification, moisture-density relationships, permeability and seepage, consolidation, settlement, shear strength, lateral earth pressures, fundamentals of retaining structures, shallow and deep foundations, slope stability and erosion loss calculations. Prerequisites: 10-806-154, 10-607-149. Corequisite: 10-801-197.

CIVILET 10607161

Project - Civil Engineering Technology Program

3 Credits/Units Project-driven course through which civil engineering technicians gain firsthand experience with design by developing plans, specifications and reports for a "real-world" project while working in a team environment. Students present written and oral reports to reinforce technical communication skills. Prerequisites: 10-607-148 and 10-607-158. Corequisites: 10-607-133 and 10-607-182.

CIVILET 10607171

Construction Materials - Civil Engineering Technician Program 2 Credits/Units

Madison Area Technical College

3 Credits/Units

Effective: 2016-2017

2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units



Introduction to the design, specification and detailing of steel and reinforced concrete in typical civil engineering projects. Emphasis on infrastructural applications. Prerequisite: 10-607-160

CIVILET 10607172

Stormwater Management

Legal Elements Engineering

Introduces principles involved in the design of storm sewer systems, culverts, and detention/retention basins. Covers the basic concepts of hydraulics and hydrology. Pre-requisite: Third semester standing.

CIVILET 10607177

Emphasizes contract relationships. The first half of the semester is spent studying the elements of a valid contract along with a study of the court system. The remainder of the semester concentrates on specifications, contracting procedure and the relationship between the three main parties involved in a construction contract: owner, engineer and contractor. Other topics include professional liability, professional ethics, product liability, discharge and remedies for non-completion. Prerequisite: third-semester standing or consent of instructor

CIVILET 10607179 Intro to Geographical Information Systems (GIS)

Basic terminology and components of geographic information systems. Capturing and organizing spatial data; integrating graphic and tabular information. Using spatial relationships to answer geographic queries. Civil engineering applications of GIS technology. Prerequisite: 10-607-147 or consent of instructor

CIVILET 10607182

Water Supply and Sewerage This course will provide the student with an understanding of the principles involved in the design of municipal water supply, municipal sanitary sewerage and private on-site waste treatment (POWTS) systems. Pre-requisite: Stormwater Management, 10-607-172 and Aggregates and Concrete, 10-607-149.

CIVILET 10607193

Career Development - Civil Engineering Program

Prepares students for work in a professional engineering environment by providing them with a knowledge and understanding of themselves and others. This course also guides students through the etiquette required for success in the job market and assists them in assembling the materials and information necessary for effective job applications and interviews. Prerequisites:

10-801-195 and 10-607-120.

COLLSUCC 10890101

College Success and Study Skills 1cr

This course provides learners with strategies to develop skills for success in college and in life. Learners will practice study skills, and learn ways to improve decision-making to promote success in college and the work place. This course is usually paired with a specific program and may include added content focused on program student needs.

COMM 10801196

Oral/Interpersonal Communication

Focuses upon developing speaking, verbal, and nonverbal communication and listening skills through individual presentations, group activities, and other projects.

COMM 20810205

Small Group & Interpersonal Communications

This course explores verbal and nonverbal concepts, theories, and practical skills necessary to become competent in interpersonal and small group settings. Students explore dependent, independent and interdependent relationships with others in personal and work-related settings.

COMM 31801356

Communications 1

Communications 1 improves critical thinking, speaking, listening and writing skills. Where possible, the course is tailored to employment situations. It differs from 31-801-351, Communications 1 (2 credits), primarily in depth.

COMM 32801350

Workplace Communication for Industry

Workplace Communication for Industry is an introductory communications course designed to teach the speaking, listening, writing, and critical thinking skills needed in industrial occupations. The course focuses on communicating verbally with co-workers during and between shifts, as well as reading and writing documents in the workplace. A variety of job search skills are also covered, and students are introduced to essential computer skills. Individual sections might be tailored to a specific field, program, or career pathway.

COMPSOFT 10103121

1 Credits/Units Windows 10 Introduces the Windows 10 operating system: Students will learn and practice file management skills, work with common elements (start menu, taskbar, shortcuts, help and apps), use accessory programs, customize windows and search for information. Students are required to have access to a computer that uses the Windows 10 operating system.

Before enrolling, students must be competent in using the mouse, finding information on the internet, sending email messages with attachments, and adhering to file management practices. If lacking, students should enroll in the Basic Skills Education Course, "Computer Basics" prior to Windows 10.

COMPSOFT 10103133

Excel - Beginning

1 Credits/Units

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2 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

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Effective: 2016-2017

2 Credits/Units

Excel Beginning is an introduction to Microsoft Office Excel spreadsheet software. Create and format worksheets and workbooks; perform calculations using formulas and functions; create charts to display data visually; use Excel tables to manage large volumes of information. Prerequisite: competency in Windows including file management skills.

COMPSOFT 10103136

Continuation of Microsoft Word Beginning course. Learn to use Microsoft Word's mail merge tool, design newsletters using page setup options, developing the document layout and inserting graphics. Learn to manipulate objects and use Word with other Microsoft products. Create a custom template, use document styles and themes, and learn to apply security settings to your document.

COMPSOFT 10103137

Introduction to Microsoft's word processing software. Create, edit, and save documents. Learn to use templates, insert headers and footers, adjust page formatting and different document views. Apply formatting techniques such as changing text appearance, borders and shading, indents, tab stops, bulleted and numbered lists, paragraph alignment and separating your document in sections. Insert graphics, WordArt, and text boxes. Create and format tables, modify rows and columns, perform calculations, sort table data, customize tables. Use writing styles, create and modify footnotes, insert a table of contents page, cover page, and index page. Learn to track changes and work with pdf documents. Required: competency in Windows.

COMPSOFT 10103139

Excel - Intermediate

PowerPoint - Beginning

Access - Beginning

Collaboration Tools

Outlook

Word - Intermediate

Word - Beginning

Excel-Intermediate focuses on the intermediate concepts of Microsoft Office Excel spreadsheet software. Summarize and analyze data using subtotals, PivotTables, and PivotCharts. Use data tables, Goal Seek, Scenario Manager, and Solver to perform what-if analysis. Use Date, Logical, Lookup, Database, and Financial functions. Analyze statistics using statistical functions.

COMPSOFT 10103143

This course is an introduction to Microsoft PowerPoint presentation software. Learn how to define the purpose and scope of your presentation for effective communication. Create, edit, reuse, and rearrange slide layouts; work with themes; save and print a presentation; modify text; work with images, shapes, and art; create tables, charts, and SmartArt graphics; use transitions and animations; add audio and video; record narrations; customize a slide show; create custom templates using slide, notes, and handout masters; add comments and speakers notes; deliver effective presentations; and explore Office Mix. Required: competency in Windows and experience using word processing software.

COMPSOFT 10103145

Introduction to Microsoft Access database software. Create, edit, and use databases; add tables; create relationships; query a database; create and use forms and reports. Prerequisite: Competency in Windows.

COMPSOFT 10103165

Use Microsoft's messaging and personal information management program. Communicate by email; schedule appointments, meetings and events; manage the Inbox, contact lists, tasks and notes; track and archive messages; configure and customize Outlook; record journal entries; manage Outlook components; integrate Outlook with other Office programs.

COMPSOFT 10103169

Learn, compare, and analyze the successful use of collaboration and social media tools used in organizations today. Topics include online calendaring, online document editing and file sharing, social media, and video conferencing.

COMPSOFT 10103186

MS (Microsoft) Project Use project management software to plan a project, create a project schedule, communicate project information, assign resources and costs, and track the project's progress through completion. Working competency in Windows presumed.

COMPSOFT 10104111

Innovative Trends in Marketing This course content changes from semester to semester and is based on the hottest and most important marketing trends and topics. Students will hear from industry leaders, explore cutting-edge theories and practices and have an opportunity to explore trends in which they have a particular interest.

COOKING 60303652

This course will provide a variety topics using Foreign/Ethnic Foods.

COSMET 10502330

Making the Cut is an orientation course designed to maximize the students understanding of the Barber/Cosmetology Academy which is offered to waitlisted individuals prior to enrollment in the program. Students are introduced to the industry, receive an orientation to the program competencies, assessed on their preparedness, skill and abilities to ensure an educational match and increase the chance of successful program completion.

COSMET 31502321

Cosmetology Techniques 1

Foreign/Ethnic Foods

Making the Cut

Effective: 2016-2017

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units

3 Credits/Units

0 Credits/Units

1 Credits/Units

3 Credits/Units

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Introduces various services performed by the barber/cosmetologist. Emphasis is on hair analysis, shampooing, basic permanent waving and haircutting techniques, scalp and hair conditioning treatments, and introductory hair styling services. Students spend the first part of the semester working on manikins and each other. During the second part of the semester, students develop skills through instruction in the salon while working on clients.

COSMET 31502322 **Cosmetology Techniques 2** 2 Credits/Units A continuation of Techniques 1, this course emphasizes the development of advanced techniques in hair cutting, styling and permanent waving. This course also introduces the hands on application of various hair coloring techniques, chemical relaxing, manicuring, pedicuring, and facial services. Students continue to work on clients with instruction and guidance.

COSMET 31502323 **Cosmetology Techniques 3** 4 Credits/Units Emphasizes advanced training in the techniques presented in Techniques 1 and 2. Students continue to work on clients to further develop skills to prepare them for entering the job market and passing the state examination.

COSMET 31502328	Cosmetology Techniques 8	4 Credits/Units
COSMET 31502327 Continuation of Cosmetology Technique	Cosmetology Techniques 7 es 6.	4 Credits/Units
COSMET 31502326 Continuation of Cosmetology Technique	Cosmetology Techniques 6 es 5.	4 Credits/Units
COSMET 31502325 Continuation of Barber Cosmetology Te	Cosmetology Techniques 5 chniques 5	4 Credits/Units
COSMET 31502324 Continuation of Techniques 3.	Cosmetology Techniques 4	4 Credits/Units

Continuation of Cosmetology Techniques 7.

COSMET 31502340 **Cosmetology Theory 1** Students study the theory related to introductory salon services such as professional image, hair cutting and product knowledge. Included are terminology, care and proper usage. Students study bacteriology, decontamination and first aid procedures, trichology, and the basic theory of shampooing and conditioning hair. Basic permanent waving, hair design, and hairstyling services are also

included. COSMET 31502341 **Cosmetology Theory 2** 5 Credits/Units

This course includes the anatomy and physiology of the skin and nails, manicuring, pedicuring, skin care and facial services. Advanced hair styling and chemical relaxing are included. Theories of hair coloring and hair cutting methods are continued. This course also covers the history of the industry and related governing laws.

COSMET 31502342 **Cosmetology Theory 3** Presents advanced techniques and industry trends as determined by the instructors, including advanced hair coloring techniques. Electricity as it relates to the salon is included. Preparation for taking the State Board exam begins.

COSMET 31502343 **Cosmetology Theory 4**

Theories of hair coloring and hair cutting methods are continued.

COSMET 31502392

Introductory sales course stressing the proper application of sales techniques to skilled occupations. The sales and advertising techniques as applied to job disciplines are desinged not only to create greater efficiency on the job, but also to improve working relationships with fellow employees and clients. Includes the application of sales approach, demonstration and close.

Cosmetology Sales and Advertising 1

COSMET 31502393

Cosmetology Sales and Advertising 2 Students learn to recognize different types of salons and the opportunities each has to offer. Students also learn to identify and overcome obstacles that they may encounter. Students gain a firm grasp of duties of a salon employee.

COSMET 31502395

Cosmetology State Board Review Prepares students to the State Board exam.

COSMET 50502521

Related Barber/Cosmetology 1

Examine topics related to the structure and disorders of the hair and scalp. Become familiar with the proper selection of shampoos, conditioners and treatments for providing hair care and scalp services. Study design decisions and become familiar with the techniques associated with basic hair cutting. Identify dexterity, procedures and techniques in hair cutting and hair styling needed to provide client satisfaction. Understand bacteriology and sanitation as it relates to providing hair care services.

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Effective: 2016-2017

5 Credits/Units

2 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units COSMET 50502522 **Related Barber/Cosmetology 2** Gain an understanding of chemical services. Study the physical and chemical changes that must take place in all chemical services performed. Practice the application of chemicals and the placement of permanent wave rods to achieve the desired chemical services

COSMET 50502523

Study the anatomy of the face in order to be able to accurately perform related services. Become familiar with skin care, hair removal and make-up. Design, shape and trim facial hair to enhance a client's appearance. Explore the basic principles of electricity in an effort to better understand the safe handling of appliances in the salon / spa.

Related Barber/Cosmetology 3

Related Barber/Cosmetology 4

Court Reporting 2

Court Reporting 3

Court Reporting 4

Court Reporting 5

COSMET 50502524

Learn to recognize various nail irregularities, disorders and diseases in order to determine when to continue service or refer the client to a physician. Practice different procedures that are used to provide nail care services. Review barber/cosmetology laws and rules and its application to providing services to the client's in a safe and sanitary manner. Review for State Exam and the final exam for your apprenticeship training.

COURT 10170111

Court Reporting 1 4 Credits/Units Prepares the learners to use machine shorthand (StenEd Computer Compatible Theory) to write consonants, vowels, numbers, multi-syllabic words, multi-consonant words, punctuation, and special symbols, short forms and phrases, words in their singular and plural forms, and prefixes and suffixes.

COURT 10170112

Continuation of machine shorthand covering theory, keyboard, and phonetics necessary to write and read conflict-free computer shorthand. Introduces speed building while focusing on accuracy in writing, transcribing, and readback of shorthand notes. Includes vocabulary development.

COURT 10170113

Continuation of machine shorthand covering theory, keyboard, and phonetics necessary to write and read conflict-free computer shorthand. Introduces speed building while focusing on accuracy in writing, transcribing, and readback of shorthand notes. Includes vocabulary development.

COURT 10170114

Continuation of machine shorthand covering theory, keyboard, and phonetics necessary to write and read conflict-free computer shorthand. Introduces speed building while focusing on accuracy in writing, transcribing, and readback of shorthand notes. Includes vocabulary development.

COURT 10170115

Continues speedbuilding and vocabulary expansion for writing and transcribing material from legal proceedings (testimony, jury charges, voir dire, expert witnesses, depositions, and opening/closing statements) and technical areas (testimony, literary, congressional, scientific, and medical). Stresses fluent and accurate readback.

COURT 10170116

Court Reporting 6 4 Credits/Units Continues speedbuilding and vocabulary expansion for writing and transcribing material from legal proceedings (testimony, jury charges, voir dire, expert witnesses, depositions, and opening/closing statements) and technical areas (testimony, literary, congressional, scientific, and medical). Stresses fluent and accurate readback.

COURT 10170121

Technology course for Court Reporting program that focuses on computer basics and transcript production, dictionary management, realtime translation, and reporter technology utilizing Case CATalyst software from Stenograph, LLC.

COURT 10170122

Technology course for Court Reporting program that focuses on computer basics and transcript production, dictionary management, realtime translation, and reporter technology utilizing Case CATalyst software from Stenograph, LLC.

COURT 10170124

Technology course for Court Reporting program that focuses on computer basics and transcript production, dictionary management, realtime translation, and reporter technology utilizing Case CATalyst software from Stenograph, LLC

COURT 10170125

CAT Class 5 Technology course for Court Reporting program that focuses on computer basics and transcript production, dictionary management, realtime translation, and reporter technology utilizing Case CATalyst software from Stenograph, LLC.

COURT 10170131

English for Realtime Reporters 1

1 Credits/Units

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1 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

4 Credits/Units

4 Credits/Units

4 Credits/Units

4 Credits/Units

1 Credits/Units

1 Credits/Units

CAT Class 4

CAT Class 2

CAT Class 1





Real world smart.

Madison Area Technical College

Focuses on the rules of English grammar, spelling, punctuation, and capitalization, including vocabulary (word knowledge), through instruction and activities designed for students to develop spelling and vocabulary skills and demonstrate ability to apply the rules of grammar, spelling, punctuation, and capitalization to sentences, paragraphs, and transcripts through systematic testing and/or projects.

COURT 10170132

Focuses on the rules of English grammar, spelling, punctuation, and capitalization, including vocabulary (word knowledge), through instruction and activities designed for students to develop spelling and vocabulary skills and demonstrate ability to apply the rules of grammar, spelling, punctuation, and capitalization to sentences, paragraphs, and transcripts through systematic testing and/or projects.

COURT 10170134

Focuses on the rules of English grammar, spelling, punctuation, and capitalization, including vocabulary (word knowledge), through instruction and activities designed for students to develop spelling and vocabulary skills and demonstrate ability to apply the rules of grammar, spelling, punctuation, and capitalization to sentences, paragraphs, and transcripts through systematic testing and/or projects.

COURT 10170135

English for Realtime Reporters 5

Court Reporting Procedures

Focuses on the rules of English grammar, spelling, punctuation, and capitalization, including vocabulary (word knowledge), through instruction and activities designed for students to develop spelling and vocabulary skills and demonstrate ability to apply the rules of grammar, spelling, punctuation, and capitalization to sentences, paragraphs, and transcripts through systematic testing and/or projects.

COURT 10170170

Covers professional reporting procedures, including transcript production; daily copy reporting; using general and legal reference materials; legal citations; professional standards and ethics; technology, such as videotaped depositions and computer-assisted transcription; reporting depositions, commission hearings and business meetings; operating a freelance reporting business; and resume preparation. Requires a minimum testimony writing speed of 180wpm.

COURT 10170171

Legal Terminology

Focuses on legal terminologies customarily encountered in the judicial system in the following areas: civil law; criminal law; and discovery, trial, and appellate processes. Methods of researching legal citations are also emphasized.

COURT 10170172

Court Reporting Internship The objective of the class is to gain experience and knowledge through observation of the working reporter in the judicial and educational environment. Students will also participate by writing in actual situations relating to the freelance, courtroom, and realtime environments. Mock RPR and CRR tests are administered and mock interviews conducted. Requires a minimum testimony writing speed of 180wpm.

CRIMJUST 10504103

This course is designed for second year students who are preparing to enter into the job search process. Prepares the student for the hiring process for a Criminal Justice career including applications, resumes, interviews and hiring process standards. Also incorporates the B.E.S.T. (Basic Employability Skills Training) curriculum developed by the Manhattan Area Technical College and the Kansas Department of Commerce.

CRIMJUST 10504143

Criminology for Law Enforcement

Exposes criminal justice students to these questions: what is crime and why is it a problem? Focusing on those questions, the course will look at what is known about crime and how it is known. Also touches on crimes, criminals and theories, while focusing on the police in the criminal justice system. Prerequisite: completion of first-year courses

CRIMJUST 10504152

Emergency Management Introduces the student to the principles, theories, and practices of emergency management. The philosophy of comprehensive Emergency Management will be discussed including mitigation, preparedness, response and recovery. In addition, students will obtain ICS-100 and FEMA IS-700 certification.

CRIMJUST 10504170

Examines the concept of punishment and its form, functions, and enforcement throughout history, with an emphasis on the operation, structure, clientele, and issues confronting the institutions, agencies, and programs encompassing the corrections system including jails, prisons, and probation and parole.

CRIMJUST 10504171

Private Sector Security This course is a comprehensive examination of the relationship of the criminal justice system to business and industrial security. It also provides an overview of the administrative, personnel, and physical aspects of the private security field. Prerequisites: 10-504-900 and 10-504-170.

English for Realtime Reporters 2

English for Realtime Reporters 4

3 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Introduction to Corrections



1 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units

Professional Development Seminar for Criminal Justice

CRIMJUST 10504185

Introduction to Computer Forensics

Introductory computer forensics concepts, terminology and management of digital evidence. This course will cover the identification and collection and preservation (First Responder) of computer related and digital evidence, the acquisition of digital evidence, basic forensic analysis concepts, and presentation of digital evidence to the investigator, the District Attorney's Office, judges, and to juries. The course will also cover the incorporation of digital evidence into the investigation and prosecution of criminal investigations. An application and Criminal History Check must be submitted to the Program Director prior to registration for this course.

CRIMJUST 10504186 Introduction to Internet and Network Concepts

Internet related investigations -- terminology and management of evidence gathered from online sources. Internet Service Provider Overview. Hacking Investigations, chatroom, e-mail, website, Phishing, online auction sites, instant messaging, newsgroups and bulletin board, internet related fraud methods, BoNets, viruses, worms, etc. This course includes includes an overview of how various computer networks work, how to read log files, IP addressing schemes, IP telephony, overview of various file-sharing networks commonly found in forensic investigations. Basic overview of network intrusion detection, response and reporting. Overview of Netanalysis, Kazaalyzer, and other standard forensic tools. An application and Criminal History Check must be submitted to the Program Director prior to registration for this course.

CRIMJUST 10504187

Legal Issues and Digital Evidence

This course covers the 4th Amendment, ECPA, HIPPA, FERPA, Search Warrants (computer, online), Subpoenas, Preservation Letters & 2703, and the Patriot Act as it affects digital evidence. Dealing with ISPs, Wisconsin Statutes covering computer related crimes (child pornography, use of computers to facilitate child sex crimes, child enticement, stalking, and the computer crimes statutes), Federal computer crimes statutes, corporate law and e-discovery issues. Also included are evidence in the courtroom -- presentation of data retrieved from computer or online sources, and expert testimony in the courtroom.

CRIMJUST 10504188Advanced Computer Forensics Concepts/Forensics Practicum3 Credits/UnitsThis course is an overview of advanced computer forensics topics such as encryption, password cracking tools, data hiding
techniques, stenography, anti-forensic tools and their effect on investigation, forensic problem solving (reconstruction of web pages
from web cache, reverse engineering of P2P networks, images, etc.)INFO2 (Recycle Bin) files, in-depth discussion of file carving &
Windows artifacts, hidden partitions, thumbs.db files, advanced MAC (modified, accessed, created) time discussion, metadata,
Microsoft Vista and Bitlocker, X Box Forensics, digital deception, etc.
The course will also cover an overview of how cell phone
networks, cell phones, personal data assistants, and other devices work.

This course would be a culmination of skills from previous courses. Students would be expected to take a case study from beginning to the end of investigation and course process. Students would receive a case study problem, and would be expected to write incident reports, collect evidence, acquire digital evidence, and perform the forensic investigation of several types of digital evidence, write reports regarding the forensic examinations, participate in trial preparation and courtroom testimony.

CRIMJUST 10504189

Introduction to Video Evidence

Video is one of the most powerful tools to help law enforcement investigate and solve crimes. Video is one of the most prevalent forms of evidence collected in modern criminal investigations. This course is designed to introduce the student to various aspects of video evidence within the criminal justice system. Students will gain an overview of the various types of video evidence and their respective roles in criminal investigations. Basic, practical experience will be gained in video evidence collection, report writing and court testimony. Knowledge will be tested through quizzes, written tests, and hands-on performance. An application and Criminal History Check must be submitted to the Program Director prior to registration for this course.

CRIMJUST 10504195

Mobile Forensics

Ethics

Cell phones, smart phones, PDAs, and related storage devices are a growing source of digital evidence in the forensics profession and present unique challenges for forensic examiners. This course will also introduce fundamental concepts in mobile communications, including an overview of cell phone technology and networks, sources of potential evidence, evidence handling considerations, and small device forensic processes and documentation techniques. Students will have the opportunity work handson with small device forensic tools and technology.

CRIMJUST 10504196

This course examines the ethical issues related to person-involved in the career choice of digital forensics.

CRIMJUST 10504900

Introduction to Criminal Justice

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units



3 Credits/Units

3 Credits/Units

In this course learners will distinguish between the roles and functions of courts with jurisdiction in Wisconsin; differentiate between the roles and functions of federal, state, and local law enforcement agencies; apply professional principles as a law enforcement officer; determine modern police functions and policies from an historical perspective; identify the role of law enforcement officers in American society; utilize a decision-making model; identify the characteristics of a good decision maker; describe how professionalism, ethics, and moral standards relate to a law enforcement career; practice a code of behavior; incorporate ethical decision-making strategies; describe how decisions are made; enhance an officer's critical thinking and police problem solving skills; apply principles of critical thinking, decision-making, and problem solving; identify required law enforcement policies; defend the importance of written agency policies; and distinguish between "ministerial" and "discretionary" duties.

CRIMJUST 10504901 Constitutional Law In this course, learners will show the structure of the criminal justice system, identify situations where constitutional rules are applicable, identify situations where an officer may use reasonable suspicion to contact a subject, identify the elements of a lawful

arrest, identify search-related activities where the 4th amendment is not applicable, identify the requirements that pertain to search warrants, analyze exceptions to the search warrant requirement, identify the special requirements for searching disabled persons and strip searches, identify the legal requirements for obtaining confessions and statements, and analyze the relationship between law enforcement actions and the admissibility of evidence in court. Prerequisite: 10-504-902.

CRIMJUST 10504902

Criminal Law 3 Credits/Units In this course, learners will identify basic concepts of criminal law; analyze facts, circumstances, and situations to determine which crimes against persons and property have been committed; determine which crimes involving drugs, alcohol or other criminal activity have been committed. Prerequisite: 10-504-900, 10-504-170.

CRIMJUST 10504903

Professional Communications

In this course, the learner will apply knowledge of the communication process, apply communication techniques, integrate verbal and physical intervention skills, develop strategies to obtain information in a variety of situations, differentiate between interview and interrogation, and analyze information for consideration as corroborative evidence. Prerequisite: 10-504-901.

CRIMJUST 10504904

Juvenile Law 3 Credits/Units In this course, the learner will describe the juvenile justice system, describe the handling of cases of children in need of protection or services, describe the handling of cases of juveniles in need of protection or services or alleged to be delinguent, identify constitutional law issues that are relevant to juveniles, analyze the role of law enforcement in responding to child maltreatment, explain the issues involved in investigating incidents of child victimization, intervene and apply appropriate investigative strategies, describe the roles of other agencies in child maltreatment cases, and recognize the unique investigative issues for missing children. Prerequisites: Intro to Criminal Justice, 10-504-900 and Intro to Corrections, 10-504-170.

CRIMJUST 10504905

Report Writing

In this course, the learner will explain the context of report writing, take effective field notes, organize information in reports, write narratives, describe what information should be included in certain types of reports, prepare for court, describe how to be an effective witness, and testify as a witness in court.

CRIM.JUST 10504906

Criminal Investigation Theory In this course, the learner will describe the role evidence plays in criminal investigations and prosecutions; apply the steps for processing crime scenes; apply appropriate strategies to locate, handle, and package evidentiary items; document the crime scene; recognize the unique investigative issues for crimes against life; apply appropriate strategies to secure the scene, collect and preserve evidence, and investigate a death; recognize the dynamics of victimization; apply knowledge of the definitions and responsibilities for law enforcement; apply appropriate interview techniques with adult or child victims; analyze the role of law enforcement in responding to domestic abuse; intervene and apply appropriate investigative strategies; respond to an officerinvolved domestic violence incident; analyze the role of law enforcement in responding to sexual abuse; demonstrate investigative techniques in a simulated sexual assault case; and identify other resources that can assist in sexual assault cases. Prerequisites: 10-504-902

Community Policing Strategies

CRIMJUST 10504907

In this course, the learner will identify local community resources, describe the role of an advocacy group in the criminal justice community, demonstrate cultural self-awareness, interpret state and federal laws related to discrimination and diversity, utilize appropriate skills for interacting effectively and professionally with persons from culturally diverse backgrounds and lifestyles, identify and implement personal strategies that take into account cultural differences, identify the types of situations and the characteristics of individuals that are likely to be encountered in crisis management situations, apply Wisconsin statutory requirements and general guidelines regarding emergency detentions and emergency protective placements of persons, identify key concepts and elements associated with law enforcement response to people in crisis, apply crisis intervention principles and techniques, articulate the decision-making process taken to manage persons in crisis, incorporate community policing strategies into the community, illustrate problem-oriented policing strategies, evaluate other policing strategies, and apply principles of crime analysis and prevention. Prerequisite: completion of first-year courses.

CRIMJUST 10504908

MADISON AREA | TECHNICAL COLLEGE Traffic Theory

3 Credits/Units

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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

In this course, the learner will enforce Wisconsin traffic laws, detect traffic violations, issue traffic citations, direct traffic, identify responsibilities of a first responding officer, manage the response to a scene, take necessary steps to enable effective follow-up as needed, conduct an initial investigation at a crash scene, identify the mechanics of measuring and documenting traffic crash scenes, complete the Wisconsin Motor Vehicle Accident Report, record the crash scene using photography, take appropriate enforcement action based on information gathered, and recognize and interpret indicators of impaired driving.

CRIMJUST 30504310

Application of Investigations

Through classroom lecture, and on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following Phase III topics of the Department of Justice 720 Academy curriculum framework: Ethics II: Moral Reasoning and Professional Responsibility, Cultural Competence II: Fair and Impartial Policing, Victims, Sexual Assault, Child Maltreatment, Interrogations, Testifying in Court, and Crimes III. The Department of Justice Phase III written examination will be administered at the conclusion of this course.

CRIMJUST 30504311

Application of Traffic Response

Through classroom lecture, and on-campus lab, students will learn and apply skills addressed in the following Phase III topics from the WI Department of Justice 720 Academy curriculum framework: Traffic Law Enforcement - Core and Radar, Traffic Crash Investigations & Incident Management, Operating a Motor Vehicle While Intoxicated (OMVWI), Standardized Field Sobriety Tests (SFST), and Report Writing. The Department of Justice Phase III written examination will be administered at the conclusion of this course.

CRIMJUST 30504312

Health and Fitness Through classroom lecture and on-campus lab students will apply Phases I-III Health Fitness WI Department of Justice 720 Academy curriculum framework program requirements. The Department of Justice Phase III written examination will be administered at the conclusion of this course.

CRIMJUST 30504313 **Overview of Criminal Justice** 1 Credits/Units Through classroom lecture and WI Department of Justice 720 Academy integration exercises, students will learn and apply skills addressed in the following WI Department of Justice 720 Academy Phase I curriculum framework topics: Academy Orientation. Fundamentals of Criminal Justice, Ethics, Cultural Competency, Agency Policy, and Professional Communication. The Department

of Justice Phase I written examination will be administered at the conclusion of this course. 2 Credits/Units CRIMJUST 30504314 **Overview of Investigations**

Through classroom lecture, on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following Department of Justice 720 Academy curriculum framework Phase I topics: Constitutional Law I, Crimes I, Juvenile Law I, Interviews, Report Writing, and Physical Evidence. The Department of Justice Phase I written examination will be administered at the conclusion of this course.

CRIMJUST 30504315

Overview of Patrol Response Through classroom lecture, and on-campus lab, and WI Department of Justice integration exercises students will learn and apply skills addressed in the following WI Department of Justice 720 Academy curriculum framework Phase I topics: Critical Thinking and Decision-Making, Basic Response (RESPOND), Radio Procedures, Introduction to TraCS, Traffic Law Enforcement, and First Aid/CPR/AED. This course will also include the WI DOJ 720 Academy Integration Exercises. The Department of Justice Phase I written examination will be administered at the conclusion of this course.

CRIMJUST 30504316

Through classroom lecture, and on-campus lab and WI Department of Justice 720 Academy integration exercises, students will learn and apply skills addressed in the following Department of Justice 720 Academy curriculum framework Phase I topics: Fundamentals of Firearms, Vehicle Contacts I, Officer Wellness, and DAAT. The Department of Justice Phase I written examination will be administered at the conclusion of this course.

CRIMJUST 30504317

Principles of Emergency Vehicle Response Through classroom lecture, and on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following Department of Justice 720 Academy Phase II topics: Emergency Vehicle Operation and Control (EVOC) and Vehicle Contacts II. The Department of Justice Phase II written examination will be administered at the conclusion of this course.

CRIMJUST 30504318

Principles of Investigations

Overview of Tactics

Through classroom lecture, and on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following Phase II topics of the WI Department of Justice 720 Academy curriculum framework: Constitutional Law II, Crimes II, Domestics, and Report Writing. The Department of Justice Phase II written examination will be administered at the conclusion of this course.

CRIMJUST 30504319

Principles of Patrol Response

2 Credits/Units

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Effective: 2016-2017

2 Credits/Units

2 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

Through classroom lecture, and on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following WI Department of Justice 720 Academy curriculum framework Phase II topics: Professional Communication Skills II, Incident Command Systems and NIMS, Hazardous Materials and WMD, Tactical Response, Crisis Management, and Tactical Emergency Casualty Care. The Department of Justice Phase II written examination will be administered at the conclusion of this course.

CRIMJUST 30504320

Principles of Tactics

Through classroom lecture and on-campus lab students will learn and apply skills addressed in the following Phase II topics from the Department of Justice 720 Academy curriculum frameworks: DAAT and Firearms II. The Department of Justice Phase II written examination will be administered at the conclusion of this course.

CRIMJUST 30504350

Basic Jail Officer Certification

Jail Officer Certification Academy provides the curriculum required for jail officer certification required by the Wisconsin Law Enforcement Standards Board. This course focuses on the philosophical and tactical principles of working as a correctional officer in Wisconsin. It includes a skills-assessment examination prior to completion to verify student competence. Topics covered include state law and administration code provisions governing county jail operations, the basic constitutional rights of prisoners, as established by Federal Courts, and basic guidelines regarding effective correctional practices and procedures. Upon the successful completion of the program, a student will be eligible for certification with the Wisconsin Department of Justice, Law Enforcement Training and Standards Board as a jail officer.

Students seeking admission to the Jail Officer Certification must be at least 18 years of age; possess a high school diploma or equivalent; complete the Wisconsin Department of Justice Application for Enrollment - Jail Officer Training (DJ-LE-327); possess a valid Wisconsin Driver's License; complete a criminal history records check; and complete a satisfactory oral interview. Students accepted into the Jail Officer Certification Course must undergo a physical assessment by a Wisconsin licensed physician.

Contact the Criminal Justice Department in the School of Human and Protective Services at (608) 246-5297 for specific application materials.

Enrollment is regulated by the Wisconsin Department of Justice.

CUL ARTS 10316101

Principles Of Sanitation

Covers food service sanitation principles and the role of food service personnel in the prevention of contamination and food borne illness. Certification through the National Restaurant Association Educational Foundation is a requirement for completion and can be used to apply for state certification.

CUL ARTS 10316104

Intro To Gourmet Food Prep

Food Theory

Provides students with an introduction to classical and ethnic cooking techniques common to full-service restaurants. Students will have an opportunity to apply and develop skills in the MATC Gourmet Dining Room, a simulated restaurant environment.

CUL ARTS 10316106

This course provides the opportunity for the learner to develop the knowledge, skills, and understanding of food preparation in commercial kitchens that will enhance their careers.

CUL ARTS 10316108

Culinary Baking Fundamentals

Professional Cooking 1

Provides a general understanding of basic baking principles and knowledge of the functions and appropriate usage of the major ingredients used in production baking. Different types of bakery products are classified according to their characteristics. Ingredient cost-outs are calculated.

CUL ARTS 10316111

Students will learn basic skill sets and foundation block of professional cooking in a practical environment. The class develops foundation skills that are used in every kitchen. Emphasis of the class is: sanitation, knife skills, heat transfer, protein cooking, working in teams, Mise en place, sauce production and starch cookery.

CUL ARTS 10316112

Cuisines of the World

Students will explore foods from North America and other prominent regions of the world. Gives students the opportunity to further practice and reinforce cooking techniques and knife skills needed to produce stocks and sauces, starches, meats, and other food items. Protein fabrication and heat transfer techniques are also covered.

CUL ARTS 10316115

Culinary Baking Lab

2 Credits/Units





Effective: 2016-2017

3 Credits/Units

4 Credits/Units

1 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

4 Credits/Units

A chef who develops a basic understanding of the baking process will be better able to manage any kitchen situation, including the pastry department. Mastery is not the goal of this course, but rather to develop a foundation in baking principles through hands-on application in a modern baking lab using production equipment. Students will prepare a variety of standard bakery products to obtain knowledge about the many processes of baking. Prerequisites: Culinary Baking Fundamentals, 10-316-108 or concurrent enrollment

CUL ARTS 10316121

Further continuation of 316-119 lab with emphasis placed on the demands of running a kitchen and developing quality products and sticking to details. Students will elevate their skills; heat transfer, sanitation, critical thinking, team work, and sauce production. The last eight weeks of the class are devoted to fish & shellfish cookery. The final segment is interpreting menus from the students.

Professional Cooking 2

CUL ARTS 10316130

Gourmet Foods Expanding on the first semester of Intro to Gourmet Foods, students will incorporate the culinary skills they have learned over the last one-and-a-half of the culinary arts program. Utilizing up to date cooking techniques and following industry standards for highend foods students will maintain all aspects of the kitchen with the utmost care. With an emphasis on working on presentation, flavors, cooking skills and time management students will gain a real work environment with the lab component of learning to prepare high-end foods. Students are expected to have completed the first semester of Intro to Gourmet before entering the Gourmet Foods class.

CUL ARTS 10316132 Waitstaff Training Waitstaff training encompasses the art of service and the importance of front of the house work in the culinary program. Students learn how to properly interact with guest and provide high quality service to guest. They learn the fundamentals of table service and proper techniques for service. Along with gaining insight on guest service students learn the procedures for entering guest orders and interacting wit the kitchen staff. They will be provided with management opportunities that will require critical thinking and make important decision on how to handle specific situations.

CUL ARTS 10316133

Garde Manger/Decorative Foods

This course is designed to give the students a fundamental working knowledge of the cold kitchen. Students will have hand on working experiences and be tested for their knowledge of Garde Manager using quizzes, a written midterm, final exam and one cold platter as a capstone group project. Students will be required to work on projects independently and in-group settings. Students will begin the class by learning the history of Garde Manager and produce products that are made every day on the cold side of our industry to include; ice carving, charcuterie, sandwiches, crackers, cheese and even pickles.

CUL ARTS 10316135

Dining Room Operation

Dining Room Operations focuses on the spirit of hospitality, guest service and the importance of front-of-the-house work in the culinary program in a leadership position. As a dining room manager, students will learn how to

properly coach, mentor, and enforce the importance of hospitality & service to guests. Students will stress the fundamentals of table service, proper techniques for service, & lead fellow students in their roles as servers. Students learn from the experience of running a live operating restaurant dining room from a management prospective. Students gain leadership confidence, communication & interaction skill with both front-of-the-house & back-of-the-house staff. They will be provided with management opportunities that will require critical thinking & decision making on how to handle specific situations.

CUL ARTS 10316139

Catering

Nutrition

Menu Planning

Provides an understanding of catering concepts through demonstration and hands-on experience by completing various food functions. The events vary from black tie multi-course dinners for the community to BBQ lunches.

CUL ARTS 10316140

This course provides the fundamentals of menu planning. Topics include menu trends, the market survey, nutrition, menu planning, foodservice menus, yield tests, standard recipes, recipe costing, menu development and design, sale history, merchandising, and equipment analysis. Emphasis is placed on developing the skills necessary to effectively create a professional menu.

CUL ARTS 10316152

Provides information about nutrition as it applies to the food service industry. The six classes of nutrients are discussed as well as the latest guidelines set forth by governmental agencies and health organizations. Students learn about healthful cooking methods needed to modify and create menus for specific health concerns. The role of diet in disease prevention also is discussed.

CUL ARTS 10316158

Food Purchasing Analysis The goal of this course is to enable you to understand all the mechanics of buying food, beverages and goods for a food service establishment. It will also focus on building relations with suppliers, how to use technology to properly store and record goods purchased. Pre-requisite: Appropriate Math Placement test score or equivalent course. This course is offered in an online format only.

CUL ARTS 10316194

Culinary Internship

The internship program is designed to provide students with an opportunity to relate current educational material from the college classroom to practical experience under the direction of professionals in extended work assignments.



Effective: 2016-2017

4 Credits/Units

4 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units

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DENTAST 31508302

Dental Chairside Prepares dental assistant students to chart oral cavity structures, dental pathology and restorations and to assist a dentist with basic dental procedures including examinations, pain control, amalgam restoration and cosmetic restoration. Student will also develop the ability to educate patients about preventive dentistry, brushing and flossing techniques, and dental procedures, using lay terminology. Throughout the course, students will apply decoding strategies to the correct use and interpretation of dental terminology. Prerequisites: completion of, or concurrent enrollment in, 10-508-101.

Dental Assistant Clinical

DENTAST 31508306

Students apply skills developed in Dental and General Anatomy, Dental Health Safety, Dental Chairside, Dental Materials, Dental Radiography and Professionalism in a clinical setting with patients. Emphasizes integration of core abilities and basic occupational skills. Prerequisites: completion of, or concurrent enrollment in, 10-508-101, 31-508-304, 31-508-302, 10-508-113, 31-508-305 and 31-508-307.

DENTAST 31508307 Dental Assistant Professional

Prepares dental assistant students for professional success in a dental practice or another dental health care environment. Students develop professional appearance and image. More importantly, they learn to work within ethical guidelines and legal frameworks. In preparation for entering the work force, dental assistants customize or develop their portfolios and lay out an on-going professional development plan. Prerequisite: acceptance into the Dental Assistant program.

DENTHYG 10508101

Dental Health Safety

Dental Radiography

Prepares dental auxiliary students to respond proactively to dental emergencies, control infection, prevent disease, adhere to OSHA Standards, and safely manage hazardous materials. Students also take patient vital signs and collect patient medica/dental histories. CPR certification is prerequisite: students will be required to show proof of certification before beginning the course.

DENTHYG 10508102

Prepares Dental Hygienist students to apply detailed knowledge about oral anatomy to planning, implementation, assessment, and evaluation of patient care. Students identify distinguishing characteristics of normal and abnormal dental, head, and neck anatomy and its relationship to tooth development, eruption, and health.

Oral Anatomy, Embry, Histology

DENTHYG 10508103

Prepares dental auxiliary students to operate x-ray units and expose bitewing, periapical, extra oral, and occlusal radiographs. Emphasis is placed on protection against x-ray hazards. Students also process, mount, and evaluate radiographs for diagnostic value. In this course students demonstrate competency on a manikin. In addition, students expose bitewing radiographs on a peer, role-play patient. Students gain further experience in exposing radiographs on patients in the clinical portion of their program. This course also provides the background in radiographic theory required for students to make informed decisions and adjustments. Prerequisites: completion of, or concurrent enrollment in, Dental Health Safety, 10-508-101, and Dental and General Anatomy, 31-508-304

DENTHYG 10508105

DENTHYG 10508106

This clinical course builds on and expands the technical/clinical skills student dental hygienists began developing in Dental Hygiene Process 1. Under the direct supervision of an instructor, students apply patient care assessment, planning, implementation, and evaluation skills to provide comprehensive care for calculus case type 1 and 2 patients and perio case patients. This course also introduces the application of fluoride and desensitizing agents, whole mouth assessments, comprehensive periodontal examinations, application of sealants, and patient classification. Students also begin performing removal of supragingival stain, dental plaque, calcified accretions, and deposits. In addition, they gain further experience in exposing radiographs on patients.

DENTHYG 10508107

Dental Hygiene Ethics & Profes

Periodontology

Dental Hygiene Process 1

Dental Hygiene Process 2

Helps student dental hygienists develop and apply high professional and ethical standards. Students apply the laws that govern the practice of dental hygiene to their work with patients, other members of a dental team and the community. Emphasis is placed on maintaining confidentiality and obtaining informed consent. Students enhance their ability to present a professional appearance.

DENTHYG 10508108

This course prepares student dental hygienists to assess the periodontal health of patients, plan prevention and treatment of periodontal disease, and to evaluate the effectiveness of periodontal treatment plans. Emphasis is placed on the recognition of the signs and causes of periodontal dfisease and on selection of treatment modalities that minimize risk and restore periodontal health.

DENTHYG 10508109

1 Credits/Units Cariology This course focuses on the characteristics and contributing factors of dental decay. Dental Hygiene students help patients minimize caries risk by developing treatment plans, communicating methods to patients, and evaluating treatment results. Prerequisites: satisfactory completion of all first semester, second year Dental Hygiene courses and concurrent enrollment in 10-508-124.

DENTHYG 10508110

Nutrition and Dental Health

2 Credits/Units

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Effective: 2016-2017

5 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

4 Credits/Units

2 Credits/Units

4 Credits/Units

4 Credits/Units

1 Credits/Units

This course provides review sessions for the Dental Hygiene National Board examination.

DENTHYG 10508111

General and Oral Pathology

Dental Hygiene Process 3

This course prepares the student dental hygienist to determine when to consult, treat or refer clients with various disease, infection or physiological conditions. Students learn to recognize the signs, causes, and implications of common pathological conditions including inflammatory responses, immune disorders, genetic disorders, developmental disorders of tissues and cysts, oral tissue trauma, and neoplasm of the oral cavity.

DENTHYG 10508112

This clinical course builds on and expands the technical/clinical skill student dental hygienists developed in Dental Hygiene Process 2. In consultation with the instructor, students apply independent problem-solving skills in the course of providing comprehensive care for calculus case type 1, 2, and 3 patients and perio case type 0, I, II, and III patients. This also introduces root detoxification using hand and ultra-sonic instruments, a selection of dental implant prophylaxis treatment options, and administration of chemotherapeutic agents. Students also adapt care plans in order to accommodate patients with special needs.

DENTHYG 10508113

Prepares dental auxiliary students to handle and prepare dental materials such as liners, bases, cements, amalgam, resin restorative materials, gypsum products and impression materials. Students also learn to take alginate impressions and clean removable appliances. Prerequisites: completion of, or concurrent enrollment in Dental Health Safety (10-508-101).

DENTHYG 10508114

Dental Pharmacology

Dental Materials

Prepares student dental hygienists to select safe and effective patient premedication and within the scope of dental hygiene practice. Students will also learn to recognize potential pharmacological contraindications for specific patients and to take measures to avoid negative impact or alert other members of the dental team to possible negative impact.

DENTHYG 10508115

This coruse prepares the Dental Hygienist student to play a proactive role in improving the dental health of community members of all ages. Students perform and interpret dental health research to determine community dental health needs.

DENTHYG 10508116

This course prepares the student dental hygienist to work within the scope of dental hygiene practice to manage pain for dental patients. Students learn to prevent and manage common emergencies related to administration of local anesthesia, prepare the armamentarium, and administer local anesthesia. The course also addresses the recommendation of alternative pain control measures

DENTHYG 10508117

Dental Hygiene Process 4

Community Dental Health

Dental Pain Management

Emphasis on treatment planning, X-ray interpretation, advanced instrumentation, pain control, four-handed dental hygience, patient motivation and parelleling radiographic techniques. Prerequisites: satisfactory completion of all second seemster, first year Denal Hygiene courses and 20-806-273 and concurrent enrollment in 10-508-118, 10-508-142, 10-508-145 and 10-508-190.

DENTHYG 10508304

Prepares Dental Assistant students to apply fundamentals of general and dental anatomy to informed decision making and to professional communication with colleagues and patients. Prerequisites: acceptance into the Dental Assistant program.

DIESEL 10412112

Prepares the student with the knowledge and skills needed to adjust, diagnose, service and repair mobile hydraulic systems found on trucks and construction equipment.

DIESEL 10412125

Cab Climate Control and Refrigeration Systems Lectures/labs provide skills to diagnose, maintain and service air conditioning and transport refrigeration equipment found on truck trailers and off-road equipment.

DIESEL 10412137

Preventive Maintenance Inspections

This course will provide the opportunity to perform preventive maintenance inspections and conduct minor repairs on heavy-duty trucks and equipment. An overview of the Federal Motor Carrier Safety Regulations as they relate to the inspection, repair and maintenance of commercial motor vehicles will also be included.

DIESEL 10412138

The student will gain the knowledge needed to function in a typical service department setting. The student will learn what it takes to manage a service department, the costs involved in running the department and the day-to-day problems that arise in the service department. General business operational procedures, record keeping and cost effectiveness will also be part of this course.

DIESEL 10412140

Diesel Shop Skill Fundamentals

Diesel Shop Management

Includes a discussion of the job requirements, skills needed, career options and employment opportunities in diesel equipment repair and maintenance. Introduces shop procedures, safety practices, tools and using service manuals.

Dental & General Anatomy

Mobile Hydraulics

1 Credits/Units

Real world smart.

2 Credits/Units

4 Credits/Units

2 Credits/Units

1 Credits/Units

3 Credits/Units

5 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

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DIESEL 10412144 **Fundamental Diesel Electrical/Electronics Systems** Theory and laboratory experiences in this course are designed to introduce the student to the diesel electrical/electronic systems used on today's modern trucks and construction equipment. Fundamental theory of electricity and electronics, troubleshooting techniques, use of digital multimeter and current clamp, types of electrical circuits, wiring, components, batteries and the use of wiring diagrams will be covered.

DIESEL 10412145

Theory and laboratory experiences in this course are designed to give the student the knowledge and skills needed to diagnose, service, and repair heavy-duty electrical systems found on today's modern trucks and off-road equipment. **DIESEL 10412155 Heavy Duty Drivetrains** 4 Credits/Units

Electrical/Electronics Systems Diagnostics

This course prepares the student with the knowledge and skills needed to adjust, diagnose, maintain, service and repair heavy duty drivetrains found on trucks and construction equipment.

DIESEL 10412164 4 Credits/Units Prepares the student with the knowledge and skills needed to adjust, diagnose, service and repair heavy duty brakes and suspension systems. Students will also perform vehicle alignment procedures and utilize various alignment equipment.

DIESEI 10412177 **Diesel Engine Diagnostics** 2 Credits/Units Lectures and labs use the latest in diagnostic equipment to evaluate engine performance and diagnose power complaints on mechanical and computer controlled diesel fuel injection systems.

DIESEL 10412178

Explores the logical thought process used analyzing and diagnosing system malfunctions and performance problems. Practical hands-on experiences of diagnostic and problem solving techniques will be included. Also included will be evaluating failures, classifying failures, problems and documentation of findings.

DIESEL 10412184

Diesel Engine Technology Study in this course will allow the student to develop a basic knowledge of design, construction and operating principles of the diesel engine. Service, maintenance and the types of repairs made on diesel engines and diesel engine support systems will be a major emphasis of the course.

DIESEL 10412185

Diesel Engine Repair

Diagnostic Strategies

Teaches students to maintain, service and repair diesel engines and engine support systems. The course also includes precision measuring, failure analysis and parts inspection.

DIESEL 10412188

Electronic Control Systems This course provides the student with the experience needed to diagnose and service modern electronic control systems used on trucks and construction equipment. The course includes electronic controlled diesel engines, ABS brake systems, electronic controlled transmissions and other computer controlled electronic vehicle systems.

DIESEL 10412190

Diesel Equipment Laboratory Experience 1 Students service various trucks, construction and industrial equipment. Emphasizes daily shop operations, procedures and safe work habits. Simulated on-the-job experiences develop and apply students' knowledge and skills. Prerequisite: all first year courses.

DIESEL 10412195 Occupational Experience 1 - Diesel Equipment Technology 2 Credits/Units

Program As interns, students work on electrical/electronic systems, vehicle and equipment maintenance, heavy duty brakes, suspensions, drive trains and general shop maintenance. Types of jobs and competencies employed may vary depending on what area of the industry the employer represents. Technical competencies for this course may be performed either alone, as an experienced technician's helper or a combination thereof. Prerequisites: all first year program courses.

DRAMA 20810230

Intro To Theatre 3 Credits/Units This is a beginning study of theatre especially as it relates to modern audiences. Students will examine and experience theatre in its various forms. A survey of theatre history from a global perspective provides the foundation for a greater understanding and perspective of the art. This course is an opportunity to explore playwriting, acting, directing and design leading to critical analysis of production. Students are expected to analyze scripts and attend performances turning in written reviews. The sequence of this course begins with audience perspective layered with historical and performance perspectives.

DRAMA 20810232

MADISON AREA | TECHNICAL COLLEGE International Arts Intensive-Theatre

3 Credits/Units

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4 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

Brake and Suspension Systems

DIESEL 10412176 Diesel Fuel Systems 4 Credits/Units

Lectures and labs allow students to diagnose, service, and repair diesel fuel systems found on trucks and agricultural equipment.

Provides a unique immersion in which participants will study the interdisciplinary nature of the arts. Students will travel to an international arts center to explore the connections that exist among the disciplines of music, theater, and visual art. Historical, geographical, and cultural perspectives will be examined to enhance understanding of live performance experiences in both theater and music. Based on site-specific study, students will apply aesthetic values to the description of music and theater styles.

DRAMA 20810235

Stagecraft 1 is an overview of the backstage elements involved in theatrical production. It provides basic knowledge of scenery, lighting, rigging, sound, props, costumes and stage management. Students have the opportunity to mix classroom with practical experience.

Stagecraft 1

Stagecraft 2

Drama Practicum

Acting 1

DRAMA 20810236

Develops the skills introduced in Technical Theater 1 and explores the design aspects of scenery, lighting, sound and costumes for the stage. Students are encouraged to develop interest in theory, design execution and portfolio preparation.

DRAMA 20810238

Cultural Diversity in Contemporary American Theater

Cultural Diversity in Contemporary American Theater investigates the representation of gender, ageism, sexual identity and racial stereotypes in written and performance forms. The course explores how popular images are created and reinforced by writers, directors, and performers. Students will analyze performance, scripts, and video documentation, as well as developing an original work of theatrical expression.

DRAMA 20810260

Drama Practicum is designed to engage and challenge students actively involved in theatre programming at Madison College or with a partner theatre organization from the community. This practicum stresses the self-development of artistic proficiencies of theatre students. There is a minimum of 25 hours of service required for a 1 credit practicum. A minimum of 35 service hours are required for the 2 credit practicum.

DRAMA 20810262

Acting 1 explores the actor's process in preparing for a role. It covers basic acting principles, including action, objective, obstacles, conflict, beats and being in the moment. It incorporates fundamentals of movement, voice and improvisation essential to the art of acting. Students will examine scripts, do character analysis, maintain actors' journals and perform five graded exercises.

DRAMA 20810263

Acting 2 Acting 2 continues the actor's preparation and execution of believable roles as a member of an ensemble. Particular attention is addressed to script analysis, character development, and ensemble performance in relation to theatrical genre.

DRAMA 20810270

Movement Theory & Training for Actors

ECE: Preschool Capstone

ECE: Foundations of ECE

Infants/Toddlers-Grp Care

Movement Theory and Training for Actors is an introductory course designed to assist acting students to better understand physical movement, the relationship between training and energy, and the use of physical movement in character development.

EARLYCHL 10307130

The capstone is the last course all students take prior to completing the Preschool Credential. The intent of this capstone course is to cover and revisit some important themes from the prior five courses. The student will synthesize the information and demonstrate mastery of the competencies through the completion of a portfolio

EARLYCHL 10307148

This course introduces you to the early childhood profession. Course competencies include: integrate strategies that support diversity and anti-bias perspectives; investigate the history of early childhood education; summarize types of early childhood education settings; identify the components of a quality early childhood education program; summarize responsibilities of early childhood education professionals; explore early childhood education models.

ECE: Infant & Toddler Development

EARLYCHL 10307151

In this course you will study infant and toddler development as it applies to an early childhood education setting. Course competencies include: analyze development of infants and toddlers (conception to three years); correlate prenatal conditions with development; summarize child development theories; analyze the role of heredity and the environment; examine research-based models; examine culturally and developmentally appropriate environments for infants and toddlers.

EARLYCHL 10307161

EARLYCHL 10307166

ECE: Curriculum Planning This course examines the components of curriculum planning in early childhood education. Course competencies include: examine the critical role of play; establish a developmentally appropriate environment; examine care giving routines as curriculum; develop activity plans and unit plans that promote child development and learning; analyze early childhood curriculum models. Corequisite: 10-307-174.

EARLYCHL 10307167

ECE: Health, Safety, & Nutrition

3 Credits/Units

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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

This course examines the topics of health, safety and nutrition within the context of the early childhood educational setting. Course competencies include: follow governmental regulations and professional standards as they apply to health, safety and nutrition; provide a safe, healthy, and nutritionally sound early childhood program; adhere to child abuse and neglect mandates; apply Sudden Infant Death Syndrome (SIDS) risk reduction strategies; incorporate health, safety and nutrition concepts into the children's curriculum

EARLYCHL 10307174

In this practicum course you will learn about and apply the course competencies in an actual childcare setting. The first of four training experiences develops skill in interacting with children and staff. MATC faculty help students through periodic observation and conferences. In addition, there is a weekly discussion which focuses on what students are observing and learning in their practicum sites and on developing skills as team members. Students taking Practicum 1 must also be enrolled in at least one other Early Childhood Education course. The preferred course would be Health, Safety, and Nutrition.

EARLYCHL 10307178

ECE: Art, Music & Lang Arts

ECE: Practicum 1

This course will focus on beginning level curriculum development in the specific content areas of art, music and language arts. Course competencies include: examine the critical role of play; establish a developmentally appropriate environment; develop activity plans that promote child development and learning; analyze care giving routines as curriculum; create developmenally appropriate language; literature and literacy activities; create developmentally appropriate art, music, and movement activities. Recommended prerequisite: 10-307-166.

EARLYCHL 10307179

ECE: Child Development

This course examines child development within the context of the early childhood education setting. Course competencis include: analyze social, cultural and economic influences on child development; summarize child development theories; analyze development of children age three through age eight; summarize the methods and designs of child development research; analyze the role of heredity and the environment. Recommended prerequisite: 10-307-151.

EARLYCHL 10307187

This course focuses on the child with differing abilities in an early childhood education setting. Course competencies include: provide inclusive programs for young children; apply legal and ethical requirements including, but not limited to, ADA and IDEA; differentiate between typical and exceptional development; analyze the differing abilities of children with physical, cognitive, health/medical, communication, and/or behavioral/emotional disorders; work collaboratively with community and professional resources; utilize an individual educational plan (IEP/IFSP) for children with developmental differences; adapt curriculum to meet the needs of children with developmental differences; cultivate partnerships with families who have children with developmental differences. Recommended prerequisites: 10-307-151 and 10-307-179.

EARLYCHL 10307188

ECE: Guiding Child Behavior

ECE: Math Science & Soc St

ECE: Family & Community Rel

ECE: Practicum 2

ECE: Children w diff Abilities

This course examines positive strategies to guide children's behavior in the early childhood education setting. Course competencies include: summarize early childhood guidance principles; analyze factors that affect the behavior of children; practice positive guidance strategies; develop guidance strategies to meet individual needs; create a guidance philosophy. Recommended prerequisite: 10-307-151.

EARLYCHL 10307192

In this second training experience, students apply the knowledge and skills acquired in Practicum 1 and related class work under the supervision of MATC faculty and teacher-caregivers at centers. Planning and implementing activities are included and conferences are scheduled to help students. Required concurrent enrollment in 10-307-178 or instructor consent and recommended concurrent enrollment in 10-307-188.

EARLYCHL 10307194

This course will focus on beginning level curriculum development in the specific content areas of math, science and social studies. Course competencies include: examine the critical role of play; establish a developmentally appropriate environment; develop activity plans that promote child development and learning; create developmentally appropriate math, science and social studies ctivities. Recommended prerequisite: 10-307-166. Required prerequisite: 10-307-178 or instructor consent.

EARLYCHL 10307195

In this course you will examine the role of relationships with family and community in early childhood education. Course competencies include: analyze contemporary family patterns; trends and relationships; utilize effective communication strategies; establish ongoing relationships with families; advocate for children and families; work collaboratively with community resources. Recommended prerequisite: 10-307-188.

EARLYCHL 10307197

ECE: Practicum 3

3 Credits/Units In this third training experience, students continue to develop teacher-caregiver skills. One week of head teaching is required. Prerequisites: 10-307-174; 10-307-192; 10-307-167; 10-307-179; 10-307-188 or instructor consent.

EARLYCHL 10307198

ECE: Admin an ECE Program

3 Credits/Units



Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

This course focuses on the administration of an early childhood education program. Course competencies include: analyze the components of an ECE facility; design an ECE program; analyze the aspects of personnel supervision; outline financial components of an ECE program, apply laws and regulations related to an ECE facility; advocate for the early childhood profession. Recommended prerequisite: 10-307-192.

EARLYCHL 10307199

This final training experience includes two weeks of head teaching; stresses staff-parent communication and may be designed to coordinate with student's choices of career specializations. Pre-requisites: 10-307-174; 10-307-192 and 10-307-197.

EARTHSCI 20806241 Earth Science Earth Science introduces the physical nature of the earth. The course covers topics in geology, geography, meteorology, oceanography and astronomy. Physical processes and an understanding of their causes and effects are investigated

ECE: Practicum 4

General Geology

Weather And Climate

Survey of Oceanography

EARTHSCI 20806244

This course introduces the student to the composition and structure of the earth, its surface features and the processes that have shaped and produced these features. The course consists of three one-hour lectures per week and a two-hour weekly lab session. The laboratory is meant to reinforce topics and concepts covered in lecture, and provide hands-on examination of geologic maps, rocks and minerals.

EARTHSCI 20806245

This course discusses nature and variability of temperature, precipitation, clouds and wind. Topics include storm systems, fronts, thunderstorms. tornadoes, hurricanes and their predictions, climate, climactic change, seasonal changes, air composition, global winds and special problems related to meteorology.

EARTHSCI 20806246

This course introduces the student to the ocean sciences. The student will investigate the origin of the oceans, ocean chemistry, ocean circulation, waves, tides, sediments and the biology of the ocean. An emphasis will be on the connections between the ocean and the atmosphere, the structure of the ocean basins and life in the oceans. To reinforce the course concepts, the students will interpret current data and maps during class assignments.

EARTHSCI 20806247

This is a one-credit introductory science lab course that investigates the physical aspects of the Earth System. This lab course is offered as a compliment to the 3-credit Earth Science lecture course (20-806-241). The course focuses on the interactions between the geosphere, hydrosphere, biosphere and atmosphere. Students will complete labs that focus on understanding landscape evolution and human interactions with the environment.

This course introduces weather and climate via hands-on means with three areas of emphasis: weather map analysis, atmospheric physics experimentation, and making weather observations. Weather map analysis will revolve around the construction of surface weather maps from plotting, isopleth analysis, and interpretation. Atmospheric physics experiments will demonstrate aspects of how the atmosphere works. Making weather observations and discussing weather instrumentation (where those observations come from!) will be part of the course via an online weather journal.

EARTHSCI 20806249

Geologic Evolution of the Earth

Weather and Climate Laboratory

This four-credit lab science course introduces the student to the history of the Earth, with a focus on the evolution of the continents and the fossil record. Students will learn about geologic time, including how geologists built the geologic time scale. Basic aspects of geology, including plate tectonics, minerals and the rock cycle will be covered. Students will learn about the origin of life on earth, evolution and extinction, how fossil plants, invertebrates and vertebrates are classified. Students will gain an understanding of the Earth's geologic history as known from rock and fossil evidence.

EARTHSCI 20806250

Climate and Climate Change Climate and climate change are topics that have been widely discussed and scrutinized by scientists, businesses, and governments over the last few decades. This class will focus on the science of climate and how climate can change on multiple temporal and spatial scales, both naturally and by human activity. Topics discussed include how climate is described, what controls climate, climate cycles and feedbacks, how climate is modeled, and observations of climate change.

EARTHSCI 20806252

The course will focus on the physical processes that create environmental hazards (e.g., earthquakes, volcanoes, severe weather), the primary controls on their frequency and intensity, and how human decision-making can influence the magnitude of impact that they have when they inevitably occur.

ECON 10809195

Economics

Natural Hazards

3 Credits/Units

3 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Earth Science Lab

EARTHSCI 20806248

This course introduces basic economic principles to help you better understand the world in which you live. In addition to learning how the U.S. economy works and how it sometimes fails, you will develop a deeper understanding of issues such as why college tuition costs are rising; how wages for workers in your chosen field are determined; whether the minimum wage should be increased; why some people argue for, and others against, an expansion of international trade; how to maximize profits if you someday start your own business; and how federal government and banking system policies affect your life and the overall economy.

ECON 20809211 **Macro Economics**

This course provides an introduction to basic economic principles with applications to current economic problems affecting the overall performance of a nation's economy. The course begins with an analysis of the role of markets and prices in an economy. Topics include the causes and consequences of unemployment, inflation, and economic growth; the role of money and banking in the economy; the role of government taxing and spending policies to correct market failure and stabilize the economy; the implications of budget deficits and the national debt; and the implications of an increasingly global economy. This course is designed to meet the need for college transfer credit.

ECON 20809212

Micro Economics

This course provides an introduction to basic economic principles with applications to current economic problems affecting individuals and businesses. The course begins with an in-depth analysis of the role of markets and prices in an economy, with emphasis on when markets work well and when they fail to yield the best outcome for the society. Topics include how individuals choose to best use their limited resources; the causes and consequences of poverty and the distribution of income and wealth; the behavior of businesses in setting prices and production levels; problems of monopoly power; wage determination in labor markets; and the economics of environmental challenges. This course is designed to meet the need for college transfer credit.

ECON 20809214

Introduction to International Economics examines issues in international trade and international finance and the interconnectedness of the world's economies. Topics include the economic arguments for trade, current trade policies and practices, the effects of trade restrictions, free trade and fair trade, foreign exchange markets, and the role of international institutions such as the World Bank, the International Monetary Fund and the World Trade Organization. Current issues such as currency crises and free trade agreements will also be discussed.

ECON 20809228

Environmental Economics

Intro International Econ

This course prepares the student to analyze the interaction between economic activity and the earth's physical environment. Emphasis is placed on the impacts surrounding natural resource markets, including energy and minerals, agriculture, forests, fisheries and tourism. Economic concepts include social welfare analysis, externality costs, market failure, the time value of money. economic valuation of non-market goods, definitions of economic efficiency, risk analysis and definitions of "growth". Environmental impacts may include toxicity to ecosystems, species extinction, soil erosion, fresh water quality and availability, degradation of the marine environment, air pollution, ozone depletion and global warming. Political issues include, but are not limited to the trading of pollution credits, the debate over nuclear power, genetic engineering issues, land use planning, environmental racism, international dynamics and inter-generational equity.

ECON 20809269

Energy And Society The American experience is better understood within the context of the history of energy consumption and production. Our nation's future is inextricably connected to our resolution of the challenges we face with respect to energy. Analyses and solutions require an interdisciplinary approach. The course "Energy and Society" considers the technical, economic, political, environmental, ethical and social contexts of the topic of energy.

ECON 99809214 International Economics 3 Credits/Units Study Abroad

EDSVC 10522102

EDU: Techniques for Reading and Language Arts

This course will focus on best practices in working with children in their development of reading and language arts as well as the roles of the teacher and the instructional assistant. The student will gain an understanding of how to work with all children and reinforce instruction individually and in groups through questioning, listening and guiding, and scaffolding techniques. Current classroom materials plus enrichment and support activities will be examined and created.

EDSVC 10522103

IA: Introduction to Educational Practices

This course will include the study of historical, philosophical and social foundations of education; issues and trends including diversity affecting our schools of today including elementary, middle level and secondary educational settings. An overview of the governmental basis of education; fundamentals of teaching methodologies, learning styles, questioning techniques and basic assessment practices will be addressed.

EDSVC 10522106

IA: Child and Adolescent Development

Provides an overview of physical, motor, perceptual, cognitive, social/emotional and growth and development birth through adolescence. Analyzes social, parental, cultural, brain, and economic influences on development.

3 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units

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Real world smart.



Effective: 2016-2017

EDSVC 10522107 IA: Overview of Special Education 3 Credits/Units This course provides an overview of the special education law. Special education classifications and associated causes and characteristics will be explored as well as state and federal qualification criteria will be examined. Societal responses to students with disabilities as well as the impact of a student with special needs on family dynamics will also be covered in this course.

EDSVC 10522111IA: Guiding and Managing Behavior3 Credits/UnitsRecent trends in education support a shifting paradigm from reactive discipline to proactive, preventive classroom management.
This course will provide the learner with research-based concepts and strategies which can be used to prevent behavior problems
from occurring in the classroom and respond to misbehavior. Practical application of strategies to organizing instruction, creating a
positive classroom climate, building positive student relationships, implementing sound instructional methods, enhancing motivation
and responding effectively to inappropriate classroom behavior will be emphasized. Effective student communication and problem
solving will be practiced in class with a focus on developing skills, which will assist in empowering children to take an active role in
self control and classroom management.

EDSVC 10522120EDU: Techniques for Science3 Credits/UnitsThe course is an introduction to the content and processes of science. Strategies of teaching science will be studied and practiced
and will prepare you in assisting the classroom teacher in group and individual activities in science. Current science processes,
strategies, procedures, assessment options and factors affecting science learning will be explored.4 Credits/UnitsELEC 50413530Tech Electrical 14 Credits/UnitsThis course description is unavailable at this time. Please contact the center offering the course for more information.

 ELEC 50413531
 Tech Electrical 2
 4 Credits/Units

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 4 Credits/Units

ELEC 50413532	Tech Electrical 3	4 Credits/Units
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ELEC 50413533	Tech Electrical 4	4 Credits/Units
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 ELEC 50413534
 Tech Electrical 5
 2 Credits/Units

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ELEC 50413535	Tech Electrical 6	2 Credits/Units
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ELEC 50413542	Tech El Ind Sem 1	2 Credits/Units
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ELEC 50413543	Tech El Ind Sem 2	2 Credits/Units
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ELEC 50413544	Tech El Ind Sem 3	2 Credits/Units
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 ELEC 50413545
 Tech El Ind Sem 4
 2 Credits/Units

 This course description is unavailable at this time.
 Please contact the center offering the course for more information.

 ELEC 50413546
 Tech El Ind Sem 5
 2 Credits/Units

 This course description is unavailable at this time.
 Please contact the center offering the course for more information.

ELEC 50413547	Tech El Ind Sem 6	2 Credits/Units
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ELEC 50413548	Tech El Ind Sem 7	2 Credits/Units
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 ELEC 50413549
 Tech El Ind Sem 8
 2 Credits/Units

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 ELEC 50413552
 Tech El Ind Sem 9
 2 Credits/Units

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Effective: 2016-2017

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ELEC 50413553

ELEC 50413580 This course description is unavailable a	Trade Electrical Semester 1 at this time. Please contact the center offering the course for more inform	2 Credits/Units mation.
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Tech El Ind Sem 10

This course description is unavailable at this time. Please contact the center offering the course for more information.

Covers basic concepts of electric circuits including: Ohm's Law; Kirchhoff's Voltage, and Current Laws; power calculations; and components such as resistors, switches, fuses, conductors, insulators, capacitors, inductors, relays, and other basic electronic components. Also covers use of test equipment.

ELECT 10605113

Analog Circuit Techniques

3 Credits/Units

2 Credits/Units

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Real world smart.

Madison Area Technical College

This introductory electronics course covers devices, circuits and applications. This course uses analog electronics devices diodes, field effect and bipolar transistors and operational amplifiers to learn basic theory and use of test equipment in testing and troubleshooting. Lab procedures emphasize the use of documentation (schematics, layout diagrams, parts lists, data sheets) and troubleshooting procedures.

ELECT 10605114

This course continues to develop the concepts learned in AC/DC Electronics 1, 10605112. This course covers RL, RC, RLC circuits: transformers; filters; series and parallel resonance; bridge circuits; Thevenin and Norton theorems; wave shaping; internal resistance; motors; generators; three phase power; power factor and corrections; reactive and apparent power; wye and delta systems. Lab sessions require in-depth technical lab reports.

ELECT 10605115

This course continues to develop the concepts learned in Analog Circuit Techniques, 10-605-113. The theory and application of field effect and bipolar transistor amplifiers, operational amplifiers and oscillators are covered with an emphasis on circuits including gain, impedance and frequency response. Lab procedures emphasize increased proficiency with electronic test equipment.

ELECT 10605116

Advanced Circuit Techniques

Analog Circuit Principles

This is a project based course centering on analog circuit applications. This course emphasizes hands-on skills, assembly, testing and troubleshooting, documentation, group work and presentations.

ELECT 10605118

Digital Circuit Techniques

AC/DC Electronics 2

This introductory electronics course covers schematics, component identification, engineering notation, basic logic gates, numbering systems, component identification, and soldering techniques for through hole and surface mount components. IPC-A-610* Standard for Acceptance Criteria for Electronic Assemblies is followed for inspection of assemblies. Following the RoHS directive, lead free solder and assemblies are used in this course. *IPC certification is not automatic upon course completion. IPC certification is awarded separately from the academic credits.

ELECT 10605119

Covers digital logic circuits including basic gates, flip-flops, decoders, counters, shift registers, multiplexing circuits, comparators and other similar devices. It also covers Boolean algebra and minimization techniques as well as Field Programmable Gate Arrays (FPGA). Lab work includes individual project design, including layout, construction, testing and documentation.

ELECT 10605123

programming and Embedded C programming are covered as well as compiling, downloading embedded code into target hardware and basic troubleshooting of simple embedded programs in C. This course also covers variables, memory management, conditionals, mathematical operations, functions and loops. There is considerable emphasis on troubleshooting within this course.

ELECT 10605131

This introductory course studies analytic geometry, binomial series, differentiation of algebraic, exponential, log and trig functions and integration of algebraic functions. An emphasis is placed on the application of each of these topics to problems in science and engineering.

ELECT 10605132

This course is a continuation of Technical Calculus 1. Topics include integration techniques, partial derivatives, graphing conics, double integrals, polar coordinates, and first and second order differential equations. Emphasis is placed on applications to problems in science and engineering.

ELECT 10605143

This advanced course covers AC and DC motors, stepping motors, feedback systems, servo controllers, sensors, relays, SCRs, Triacs, MOSFETs, programmable logic controllers, industrial controllers, and applied systems and online microcomputer controls.

ELECT 10605145

Studies basic operation, interfacing and programming of PLCs and Human Machine Interfaces (HMI). Concepts, construction and troubleshooting of ladder logic and proprietary programming systems are covered.

ELECT 10605151

This advanced course covers the approach, methodology and techniques in trouble shooting electronic circuits and systems as well as the calibration, uses and limitations of common electronic test equipment.

ELECT 10605152

Digital Systems Analysis This is a project based advanced course focusing on digital circuits, embedded controllers and interfacing. The course emphasizes hands-on skills, assembly, testing and troubleshooting, documentation, working in groups and presentations.

ELECT 10605173

MADISON AREA | TECHNICAL COLLEGE

Embedded Programming

3 Credits/Units

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4 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units



Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Digital Circuit Principles

Embedded Device Concepts

3 Credits/Units Programmed devices are covered in this course with a hardware emphasis. Algorithms, event sequencing, flow diagrams, visual

Technical Calculus 1

Technical Calculus 2

Motors and Control Circuits

Programmable Logic Controls

Instrumentation and Troubleshooting

Real world smart.

Madison Area Technical College

This introductory course covers the fundamentals of electronic computer language, systems and structure. Embedded processor hardware is studies from a system level perspective. Programming structures such as loops, branching, data storage, bit-level processing (masking), functions, arrays, pointers and structures will be covered. Languages include ANSI C, Embedded C Language and principles of assembly language.

ELECT 10605176

This course covers microcontrollers and digital systems. Topics include Embedded C programming of Microcontrollers, Basic architectural concepts, parallel and serial I/O, Interrupts, Timer Subsystems, Analog to Digital conversion, Asynchronous Serial Communications (USART), CAN Bus communications, Synchronous Serial Communications (MSSP/SPI/IC2 Bus), Pulse Width Modulation (PWM), and basic control concepts.

Networks, Interfacing and Programming

Microcontrollers

ELECT 10605178

This advance course focuses on networking fundamentals and implementation with an emphasis on Linux. Explores Network layers and Protocols, LabView and FPGA Programming, wireless standards, and Hardware Configuration and programming of various Ethernet connected devices (computers, microcontrollers, remote sensors, control equipment and other hardware).

ELECT 20605252

Introduction to Computer Engineering

Presents logic components built with transistors, Boolean algebra, basic combinational logic design, basic synchronous sequential logic design, basic computer organization and design, and introductory machine-and assembly-language programming and its implementation on a Field Programmable Gate Array. The course introduces students to a team based project in assembly programming providing the experience of a real life computer engineering design project. (Designed to be a transfer course to the UW-Madison Electrical Engineering Program as ECE 252.).

ELECT 20605270

AC/DC Circuit Techniques and Principles

Provides students with hands-on experiences with instruments such as oscilloscopes, digital multimeters, signal generators and other measuring equipment. Covers circuit analysis for series and parallel circuits, Ohms Law, Kirchoff's current and voltage laws, linearity, superposition, Thevenin's theorem, Circuit analysis using Nodal and Mesh Analysis and concepts of AC signals, RC, LC and RLC circuits, filters, resonance. Concepts are reinforced with hands-on experiments coupled with mathematical analysis.

EMS 10531102

Emergency Medical Technician 1

Emergency Medical Technician 2

Based upon the State of Wisconsin/U.S. Department of Transportation/National Highway Transportation Safety Administration curriculum, this approximately 54 hour course covers modules 1-3 and includes classroom instruction, lectures, discussion, demonstrations, skill practice on the roles and responsibilities of being an Emergency Medical Services Provider, as well as basic communication and documentation skills, anatomy and physiology, performing a patient assessment, critical thinking, and basic airway management. This course is a co-requisite of the EMT 2 course.

EMS 10531103

This course is a co-requisite of the EMT 1 course and continues the State of Wisconsin/U.S. Department of Transportation/National Highway Transportation Safety Administration curriculum. This approximately 130 hour course covers modules 4-8 and includes classroom instruction, lectures, discussion, demonstrations, online assignments, and skill practice on emergent medical and traumatic encounters, dealing with special populations, and EMS Operations. Ten real-life or high-fidelity patient care experiences are required. Successful completion of EMT 1 and EMT 2 prepares students to obtain licensure as an EMT Basic in the State of Wisconsin. This course is a co-requisite of the EMT 1 course.

EMS 10531150

Emergency Response for Protective Services-Criminal 2 Credits/Units Justice/Law Enforcement Program

Covers the immediate and temporary care given in case of accident, illness or emergency childbirth. This course qualifies students for the standard or advanced AHA CPR/AED certification.

EMS 10531911

EMS Fundamental

This course provides the paramedic student with comprehensive knowledge of EMS systems, safety, well-being, legal issues, and ethical issues, with the intended outcome of improving the health of EMS personnel, patients, and the community. The students will obtain fundamental knowledge of public health principles and epidemiology as related to public health emergencies, health promotion, and illness/injury prevention. Introducing students to comprehensive anatomical and medical terminology and abbreviations will foster the development of effective written and oral communications with colleagues and other health care professionals.

EMS 10531912

Paramedic Medical Principles 4 Credits/Units This course addresses the complex depth of anatomy, physiology, and pathophysiology of major human systems while also introducing the paramedic students to the topics of shock, immunology, and bleeding.

EMS 10531913

Adv Patient Asses Principles

3 Credits/Units

2 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

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This course teaches the paramedic student to integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. By utilizing a structured and organized assessment process with knowledge of anatomy, physiology, pathophysiology, life span development, and changes that occur to the human body with time, the students will learn to develop a list of differential diagnoses through clinical reasoning, along with the ability to modify the assessment as necessary to formulate a treatment plan for their patients.

EMS 10531914

Adv Pre-Hospital Pharmacology

This course provides the paramedic student with the comprehensive knowledge of pharmacology required to formulate and administer a pharmacological treatment plan intended to mitigate emergencies and improve the overall health of the patient.

EMS 10531915

Paramedic Respiratory Management

This course teaches the paramedic student to integrate complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patient airway, adequate mechanical ventilation, and respiration for patients of all ages. Specific knowledge pertaining to the respiratory system is also provided to ensure the student is prepared to formulate a field impression and implement a comprehensive treatment plan for a patient with a respiratory complaint.

EMS 10531916

Paramedic Cardiology

Paramedic Clinical/Field 1

This course teaches the paramedic student to integrate assessment findings with principles of cardiovascular anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for a patient with a cardiovascular complaint.

EMS 10531917

This course provides the student with the opportunity to enhance his or her learning through the practice of paramedicine in field and health care environment experiences with actual patients under the supervision of instructors or approved preceptors. Students may also have the opportunity to participate in formal high-fidelity human patient simulator experiences as a part of this course.

EMS 10531918

Advanced Emergency Resuscitation By teaching Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS) methodologies and protocols, this course prepares the paramedic student in the integration of comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest states with an emphasis on early intervention to prevent respiratory and/or cardiac arrest if possible.

EMS 10531919

Paramedic Medical Emergencies

Paramedic Trauma

Paramedic Capstone

This course teaches the paramedic student to integrate assessment findings with principles of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for a patient with a medical complaint.

EMS 10531920

This course teaches the paramedic student to integrate assessment findings with principles of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for an acutely injured patient.

FMS 10531921

Special Patient Populations This course teaches the paramedic student to integrate assessment findings with principles of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for patients with special needs. Gynecological emergencies, along with special considerations in trauma are also included within this course.

EMS 10531922

EMS Operations This course provides the paramedic student with the knowledge of operational roles and responsibilities to ensure patient, public, and EMS personnel safety.

EMS 10531923

This course provides the student with a final opportunity to incorporate their cognitive knowledge and psychomotor skills through labs and scenario-based practice and evaluations prior to taking the National Registry written and practical examinations. Technical skills attainment (TSA) for each student will be compiled and/or documented within this course as required by the DHS-approved paramedic curriculum.

EMS 10531924

Paramedic Clinical/Field 2 4 Credits/Units This course provides the student with the opportunity to enhance his or her learning through the practice of paramedicine in field and health care environment experiences with actual patients under the supervision of instructors or approved preceptors. Students may also have the opportunity to participate in formal high-fidelity human patient simulator experiences as a part of this course. Successful completion of this course requires the student to meet all clinical and field competency requirements at the paramedic level as defined by WI DHS EMS.

EMS 30531360

Advanced Emergency Medical Technician

4 Credits/Units





Effective: 2016-2017

3 Credits/Units

2 Credits/Units

4 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

4 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

Real world smart.

Students learn advanced patient assessment, communication skills and beginning advanced life support interventions. Prepares students to obtain licensure as an EMT Intermediate Technician in the State of Wisconsin. Prerequisite: valid EMT-Basic License.

ENERCONS 10481110

Energy Management

Written Communication

Technical Reporting

English 2

Students will perform critical examinations of energy consuming facilities both domestic and commercial for the purpose of identifying energy conservation opportunities. In addition, the student will identify various energy conservation techniques as well as equipment which can be installed to further conserve energy.

ENGLISH 10801195

Develops writing skills which includes prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Also develops critical reading and thinking skills through the analysis of a variety of written documents.

ENGLISH 10801197

Prepare and present written, oral, and visual communication products, including instructions, proposals, informal and formal reports. Produce clear, usable communication by incorporating information design principles, arranging content to satisfy diverse audience needs, and presenting visuals for various contexts. Designed as an advanced course to develop collaborative communication practices, information literacy skills, and ethically responsible professional communication strategies.

ENGLISH 20801201

English 1 The first course in communication skills at the college level, developing student abilities in critical reading, writing, listening, and speaking, for both exposition and argumentation. The course emphasizes summarizing, analyzing, and synthesizing information from sources, and develops research and presentation skills. The class assumes competence in English grammar and paragraph structure.

ENGLISH 20801202

This course is a continuation of English 1. Students will use advanced research skills to write papers from across the curriculum. Research papers will be informative and persuasive in nature and will be based on topics from academic disciplines (social sciences, literature and the humanities, or science and mathematics). Students will conduct research using primary and secondary library resources, surveys and questionnaires, observation, and interviews and will use the MLA format and one other format (APA, Chicago) to document their sources. Students will be asked to prepare 25-35 pages of polished writing.

ENGLISH 20801204

Introduction to Literature

Gay & Lesbian Literature

Ethnic Literature

World Indigenous Literatures

Recommended as a first course in literary analysis, this course introduces students to the major genres of literature and addresses issues related to writing about literature and/or other texts. Individual sections may focus on a particular literary theme or emphasis.

ENGLISH 20801207

World Indigenous Literatures studies indigenous issues in an international context by comparing literature and film produced by Native American and other indigenous writers and filmmakers in the U.S., Canada, New Zealand, Australia, and the Indigenous Pacific. The selection of authors represents indigenous people who have remained in their homelands as minority nations within First World countries.

ENGLISH 20801211

This course examines work by representative authors in American literature written by and about lesbian and gay people from the 19th century to the present, including short stories, novels, drama, poetry and film. Works will be analyzed in regard to both specific and universal messages they have to offer, for non-gay and gay readers alike.

ENGLISH 20801212

Special Topics in Ethnic Literature explores questions of identity within various cultural contexts. Writers represent one or more ethnic groups working in one or more genres of literature with emphasis on developments in voice, genre, and style over chronological and geographical periods. Individual sections may vary in particular emphasis.

ENGLISH 20801213

Native American Literature

African American Literature

Native American Literature introduces students to rich, complex and varied literary traditions reflected in the works of contemporary Native American storytellers in fiction, poetry, drama, and film. Issues of language, cultural identity, historical witness, and current social and political experiences are reflected in these genres. The works are discussed in terms of specific cultural and universal themes, and their place in the emerging Native American literary canon.

ENGLISH 20801214

African American Literature introduces students to the rich, complex and varied literary traditions reflected in the works of African American writers. Studies developments and achievements in voice, genre, and style and explores issues of language, cultural identity, historical witness, and social and political experience. Individual sections may focus on a particular theme, genre, or period for emphasis.

ENGLISH 20801215

British Literature 1

3 Credits/Units

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3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

This course examines major authors, works, and periods of British literature from its foundations to the early eighteenth-century within the context of historical, cultural, and philosophical developments.

ENGLISH 20801216 **British Literature 2** British Literature 2 examines British fiction, biography, autobiography, poetry, and drama from the 1740s through the late twentieth century.

ENGLISH 20801217

Examines major authors and works from the early 16th to the late 19th century in American prose, drama, and poetry.

ENGLISH 20801218

Examines major authors and works from the late 19th century to the present in American prose, drama, and poetry.

American Literature 1

American Literature 2

ENGLISH 20801219

Western World Lit: Classical Antiquity to the Middle Ages This course studies Egyptian and Sumerian myths and legends, and the outstanding literary masterpieces of Western literature, from the Old Testament and Homer to the end of the Renaissance (16th century). The first semester is not a prerequisite of the second.

ENGLISH 20801220

This is a study in the outstanding literary masterpieces of Western literature from the Neoclassic period to modern times. The first semester is not a prerequisite of the second.

Western World Lit: Early Renaissance to Present

ENGLISH 20801221

Literature and Popular Culture

Students analyze, interpret, and discuss literature and diverse forms of popular culture as artistic and cultural representation. Each offering of literature in popular culture will be organized in the same way: a) Four units that deal with four different aspects of the course topic. b) Each unit will ask students to read a selection of each of the following: critical works-usually an article or articles or excerpts from a book-that offer definition of the genre, provided historical context, establish a relation between the thematic content and culture, and fosters discussion and critical analysis. c) Each unit will have at least two primary "texts", including, but not limited to books, journal articles, films, sound recordings, graphic novels, electronic environments, blogs, & multimedia presentations. d) Written assignments will include, but will not be limited to: informal discussion board postings and responses to other postings, summaries and definitions, formal response papers and essays, one sustained project that brings together the themes and elements discussed in the class. e) Other assignments may include reading quizzes.

ENGLISH 20801222

U.S. Latino Literature

This course explores U.S. Latino texts, including poetry, fiction, drama, and autobiography by Mexican-American, Puerto-Rican American. Cuban-American and Dominican-American writers. Writers from other Latino groups may also be included. Class discussion examines the rich and varied literary traditions of Latino communities in the United States. Students analyze issues of theme, genre, language, cultural identity and social and political experiences, as reflected in the texts chosen for the course. Classes are conducted in English. All required texts were originally written in English or are offered in English translation.

ENGLISH 20801223

Peace, Conflict, and Literature: The Arts of the Contact Zone 3 Credits/Units

Mary Louise Pratt defines Contact Zones as "social spaces where cultures meet, clash, and grapple with each other, often in contexts of highly asymmetrical relations of power." She goes on to describe the Arts of the Contact Zone as "exercises in storytelling ... collaborative work ... ways for people to engage suppressed aspects of history ... ground rules for communication across lines of difference and hierarchy." This course will introduce students to the arts of the contact zone by introducing them to 1) representations of peace and conflict in literature and film; 2) the theory of and strategies for conflict resolution and peace building. Through reading, writing, observations, presentations, discussion, and field and project work, students in this course will critically explore representations of peace and conflict at the personal, local, civil, and international levels. Students will explore across genres, media, time periods, cultures, and disciplines. Throughout this exploration, students will examine literature and film in order to 1) identify and describe sources of conflict; 2) analyze and explain how conflict is communicated, prevented, and/or resolved; and 3) discover how great writers and thinkers as well as ordinary citizens can work for peace.

ENGLISH 20801224

Special Topics in International Literature

Special Topics in International Literature provides the opportunity for students to study, in English, the great works of literature from other countries and other languages. The course focuses on writers representative of a particular language and/or culture working in one or more genres of literature, with emphasis on developments in content and style. Individual sections may vary in particular emphasis.

ENGLISH 20801226

Introduction to African Literature

Introduction to African Literature focuses mainly on the literature of Africa from before colonization to the present. It introduces students to the rich, complex, and varied literary traditions reflected in the works of African writers. It studies developments and achievements in voice, genre, and style and explores issues of language, cultural identity, historical witness, and social and political experience. Individual sections will focus on a particular theme, genre, or period for emphasis.

ENGLISH 20801227

Children's Literature

3 Credits/Units

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3 Credits/Units

3 Credits/Units



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3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Real world smart.

Introduces students to the major genres of literature for young people such as folklore, illustrated works, and short novels. Students will read a variety of works from different eras and study ways children's literature and the understanding of childhood have developed.

ENGLISH 20801229

This course surveys contemporary literature (mainly British and American) in relation to contemporary society and to major developments in the arts of fiction, drama and poetry. Readings mainly cover material published in the last 25 years.

Contemporary Lit

Classical Mythology

ENGLISH 20801230

Classical Mythology surveys principal myths and legends of Greek and Roman literature in relation to the historical and sociological context of ancient society as well as their importance and influence in modern times. The course will include the reading and analysis of translations of original classical works.

ENGLISH 20801231

19th c. Russian Literature in Translation

19th c. Russian Literature in Translation will provide the opportunity for students to study, in English, the great works of literature from 19th c. Russia. While World Literature courses already provide a broad survey of literature from around the world, this course would focus on the specific culture and literature of Russia during the 19th century.

ENGLISH 20801232

20th c. Russian/Soviet Literature in Translation

This course is designed to present a survey of Russian literature in a period of political, cultural, and aesthetic revolution, beginning with avant-garde movements before the Bolshevik Revolution and the dynamic literary response in the 1920s to the revolution itself, including examples of Socialist Realism, dissident and émigré literature, continuing through the periods of the Thaw and Perestroika. Readings include Chekhov, Zamyatin, Olesha, Bulgakov, Pasternak, Solzhenitsyn and others.

ENGLISH 20801240

Creative Writing

Students learn to manage the creative process through exercises and activities that lead to short stories and poetry; drama and creative non-fiction may be addressed as well. Reading assignments allow students to become familiar with principles and practice of various genres of creative writing and classroom activities prepare students for participating in workshop discussions.

ENGLISH 20801241

Students develop skills in writing prose fiction including character development, scene structure, dialogue and dramatic tension as they build toward the construction and revision of short stories, novellas, etc. Reading assignments allow students to become familiar with principles and practice of fiction. Class meetings follow a workshop format.

ENGLISH 20801242

Creative Writing/Drama

Students write monologue and dialogue, develop characters and build scripted scenes and short dramas for stage, video, cinema, or docudrama. Reading assignments allow students to become familiar with principles of dramatic practice. Class meetings follow a workshop format. Course may be paired with 810-237, Creating Original Theatre to create a six-credit writer-performer workshop.

ENGLISH 20801243

Students develop poetic technique in open and traditional forms as they draft, critique, and revise poems. Reading assignments allow students to become familiar with principles and practice of poetry and poetics. Class meetings follow a workshop format.

ENGLISH 20801244

Creative Writing/Non Fiction

Film Writing

Women In Literature

Students merge literary techniques with the skills or reportage to develop works of creative non-fiction. Reading assignments allow students to become familiar with principles and practice of literary non-fiction. Class meetings follow a workshop format.

ENGLISH 20801249

Film Writing is an intermediate-level creative writing course for the aspiring writer who wants to learn the craft of scriptwriting for feature film and/or television. Because of its emphasis on narrative structure and visual storytelling, Film Writing is also an excellent training ground for fiction writers, poets, technical and business writers, and writers working in social media. Typical outcomes of the course include a better understanding of how to tell a story, improved dialog skills, and enhanced ability to "show" rather than "tell." Class sessions involve lecture, film viewing, and writing workshops.

ENGLISH 20801250

Women in Literature examines women as both subjects and writers of literature. Students read works from a number of genres and eras, studying ways female writers have contributed to, challenged and enlarged the literary tradition. Introduces readers to literary works by and about women and teaches analytical skills, especially feminist literary criticisms. The works are selected to represent varied perspectives in race, class and sexual preference.

EVTMGT 10109102

MADISON AREA | TECHNICAL COLLEGE

Fundamentals Of Meeting Mgmt

3 Credits/Units Students explore the core issues of meeting planning from the fundamentals to the new trends shaping the meetings industry. Development of meeting timelines, checklists and request for proposal are introduced. Further focus includes the process meeting planners must use in site selections, the value of meeting objectives and format, and attendee expectations.

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Creative Writing/Fiction

Creative Writing/Poetry

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

EVTMGT 10109104

Meeting Design

Designing meeting experiences that engage participants and deliver return on investment is critical for meeting professionals. Students explore adult learning styles and theories as well as develop tools and techniques to ensure the meetings success and a positive return on investment is delivered. This course takes an in-depth look at identifying the stakeholder objectives and learner outcomes, designing effective meetings and events, and measuring return on investment.

EVTMGT 10109108

Mtgs Industry Budget/Finance

Special Event Management

Establishing a realistic and sound budget is vital to creation of successful meetings. This course examines the steps in developing a meeting budget. Students learn techniques for projecting and managing budgets including per person methodology and break-even analysis. Emphasis is placed on situations oriented to the meeting industry.

EVTMGT 10109109

Demonstrates professional practices used to create, market, plan and implement special events. Emphasis is on applying creativity to develop events with unique purposes and presentations combining elements such as site selection, décor, lighting, sound, and entertainment as well as food and beverage to reflect the theme of the event.

EVTMGT 10109110

Meeting Coordination

Provides a solid understanding of the numerous tasks and details involved in developing and coordinating a meeting and/or event. Students explore meeting room design, commonly used audio-visual equipment, the use of speakers, and how effective management of food and beverage impact successful meeting and event planning.

EVTMGT 10109111

Registration/Housing Logistics Registration is the first impression that attendees have of your meeting. Careful planning in designing a registration process is critical to setting attendees expectations, perceptions and the tone of the meeting. Meeting participants want and need comfortable and convenient accommodations, to their exact requirements. Creating rooming lists, coordinating the housing logistics, and managing sleeping room blocks to reduce or eliminate attrition are critical success factors for the planner and the meeting. This course enables students to identify and develop tools that allow attendees a seamless meeting experience.

EVTMGT 10109112

Exposition Management

Provides the student with an understanding of the growing role of trade shows as a source of revenue for the sponsor as well as an opportunity for buyers and sellers to interact face-to-face in an educational environment. Building an exposition from the start of the planning process through the close of the show is presented. Students create a request for proposal; identify contractors necessary for producing the show; and learn how to effectively interact and communicate with exhibitors throughout the process. Post-show evaluations to measure results also are explored.

EVTMGT 10109113

Risk Management, Negotiations, and Legal Issues Includes crisis planning and risk management, the art and science of negotiations, and contract and legal issues in the meetings industry. Students learn how to identify issues that are negotiable, the steps in the negotiation process and commonly used negotiation techniques. The class also focuses on basic contract provisions and key clauses of a facility contract as well as the unique elements and differences of hotel and convention center contracts. Includes discussion of legal principles and precedents as they apply to the meetings industry.

EVTMGT 10109114

Meeting/Event Mgmt Internship

Course provides both theoretical and hands-on experience planning, setting up and managing a meeting or event. Emphasis is on developing and implementing proper procedures to ensure professional results. The student is required to use their knowledge of finance, decision making, problem solving, organization and communication. Prerequisite: Third semester program student or consent of instructor.

EVTMGT 10109116

Fundamentals of Green Meetings and Events

This course provides students with a solid foundation of what is a green meeting, commonly used terminology, and how to execute a socially responsible and environmentally responsible meeting or event. Through a green lens, students will explore core strategies and principles in planning a green meeting. Further focus includes green tools and resources available to plan a green meeting.

EVTMGT 10109117

Students learn how to analyze a meeting to identify sponsorship and fundraising opportunities. These partnerships build support for a meeting, increase marketing effectiveness, and increase meeting profitability.

EVTMGT 10109119

Event Professional Best Practices

Partnership Development

This course focuses on the core knowledge and skills that are crucial in the meetings and events industry. We will examine the factors involved with job success, including professional etiquette, ethics, communication and listening skills. Learn the foundation of customer service by implementing industry standards and expectations. Students will create a professional portfolio, as well as learn about proactive job search techniques, professional networking and interview skills.

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3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

FARMBUS 10090381

Agriculture Business Management

A farm business is a complex set of enterprises that all need to be managed effectively to be successful and sustainable. Students will learn to develop a business plan, set short and long term goals, identification and implementation alternatives for reaching goals, and strategies and tools to monitor success. The student will learn organize and maintain farm business records as well as how to interpret and analyze the records to make sound farm management decisions. All competencies will be assessed by the using the student's own farm or agriculture business or with simulations established by the instructor.

FARMBUS 10090382

Principles of Sustainable Soil and Crop Management

The soil is the foundation on which farming is based. Creating a soil and crop management system that enhances the soil health and quality is one of the most fundamental practices a farmer can do. This class will provide a basic understanding of the nature of soil, and the impacts our management has on the health and productivity of the soil. Students will gain an understanding of soil fertility and learn how to management soil nutrients to meet crop needs and will evaluate the economic impacts of various soil and crop management systems.

FARMBUS 10090385

Principles of Animal Science and Management

This course provides animal science fundamentals including animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and animal-related safety. This course also emphasizes the skills, techniques and concepts of sound feeding management. Students will determine animal feed needs, evaluate nutritional value and economics of feed types and methods. Participants will experience animal concepts through the completion of hands-on activities.

FARMBUS 10090386

Agriculture Finance and Economics

Agriculture is a vital industry in Wisconsin's Economy. Students will explore the diversity and impacts agriculture plays on the economy. Students will learn major aspects of agribusiness financial management through extensive problem solving, financial analysis and financial planning. Students will describe and calculate sweet 16 ratios, business cash flows, inventory controls, budgeting and borrowing considerations of various types of agribusinesses. Students will also explore agricultural economic dimensions and impacts, economic principles, calculation of economic returns, and evaluation of economic alternatives. Students will use these tools for their own operation or on simulations developed by the instructor.

FILM 20810250

Examines techniques of film production and explores the relationship between film form and film meaning. Students view films that represent significant movements in the evolution of the medium and learn how to research and write analytical essays about these films.

FILM 20810254 **History Of World Cinema** History of World Cinema examines the history of the film medium, primarily as an art form but also as a form of communication, in the United States and internationally from its origin in the 1800s to the present, highlighting significant movements in its development. Students view domestic and foreign films as a basis for study.

FINANCE 10114126

This intermediate-level course views finance from the perspective of the financial manager. Topics include techniques of financial analysis, forecasting and budgeting, operating and financial leverage, working capital management, the time value of money, cost of capital, long-term debt and stock financing, dividends and retained earnings. Students are expected to apply both principles of accounting and finance.

FINANCE 10114127

Financial Analysis

Personal Finance

Investments

Corporate Finance

Introduction to Film

A capstone course for the Finance program. Students work in teams to analyze an industry and work individually to analyze a specific company. The project familiarizes students with common sources of business and financial information and develops their analytical skills. A final oral and written report is required.

FINANCE 10114128

Financial Institutions Introductory-level course which considers the role of financial institutions in the economy. Topics include financial intermediation, the Federal Reserve System, financial markets and instruments, and non-bank financial institutions, including savings and loan associations, credit unions, finance companies, insurance companies, pension funds, mutual funds and governmental financial institutions.

FINANCE 10114130

3 Credits/Units This introductory course considers finance from the point of view of the individual or family unit. Topics include budgets, insurance, housing, borrowing, saving, investing and estate planning. Students complete personal finance projects applying the material learned.

FINANCE 10114140

This advanced course considers alternative investment media and markets. Topics include the investment environment. fundamental and technical analysis, timing, selectivity and diversification, and computer-based investment management. Investment analysis will make use of a student-developed spreadsheet platform.

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3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

FIRET 10503100 Fire Recruit Academy 5 Credits/Units 200 hours of fire fighting training prepares students for the State of Wisconsin Firefighter I and Firefighter 2 certification examinations. Completion of the EMT Basic Course also will provide the student with a diploma in Fire Service Certification.

FIRET 10503141 **Firefighter 2/Hazardous Materials Operations** 1 Credits/Units This course meets the NFPA requirements for firefighters. Provides the first responders with the awareness and knowledge to identify hazardous materials and to safely respond to hazardous materials (hazmat) emergencies.

FIRET 10503142 **Fire Fighting Principles** Describes basic fire behavior, and techniques used to control structural and related fire emergencies, and life safety practices.

Building Construction

Students perform all practical evolutions necessary to control and extinguish fires and otherwise meet all requirements for Firefighter 1 certification with the State of Wisconsin.

FIRET 10503143

Covers the basic principles of construction and specific classifications of construction as they relate to fire prevention, fire resistance, fire and smoke containment, and performance under fire conditions. Specific building styles, including high-rise and multi-family dwelling units, are also studied. and multi-family dwelling units, are also studied.

FIRET 10503144 **OSHA** for the Fire Service 3 Credits/Units This course introduces he basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sties, emergency vehicles and emergency situations involving fire, EMS, hazardous materials and technical rescue. Upon completion of this course, students should be able to establish and manage a safety program in an emergency service organization.

FIRET 10503148 Principles of Fire & Emergency Service Administration 4 Credits/Units This course introduces the student to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer.

FIRET 10503151 4 Credits/Units Provides functional information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, and identification and correction of fire hazards. Meets all requirements for Fire Inspector 1 certification with the State of Wisconsin.

This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services.

Strategies, Tactics & Inc Mgmt Provides an in-depth analysis of the principles of emergency response through utilization of an incident management system.

Prepares students to pursue current national ICS training requirements. Prerequisites: 10-503-191, 10-503-143, 10-503-144, 10-503-100, 10-503-154, 10-503-151, 10-503-148, 10-503-195.

FIRET 10503157

Provides learners with the fundamentals and technical knowledge needed for proper fire scene investigation. Prerequisites: all first, second, and third semester courses.

FIRET 10503191

Principles of Emergency Services This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

FIRET 10503192

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Prerequisite: all first, second, and third semester courses.

FIRET 10503193

Provides information relating to the features of design and operation of fire detection and suppression systems. Prerequisites: 10-503-151, 10-503-152, and 10-503-157

FIRET 10503194

MADISON AREA | TECHNICAL COLLEGE Fire Protection Hydraulics

Fire Protection Systems

This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems.

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Principles Emergency Services/Survival

Fire Prevention

FIRET 10503154 2 Credits/Units **Hazardous Materials Chemistry**

FIRET 10503156

Fire Investigation

4 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

4 Credits/Units

FIRET 10503195

Fire Behavior & Combustion This course explores the theories and fundamentals of how and why fires start, spread and are controlled.

FIRET 30503300 Fire Recruit Academy - Fire Service Certification Program 200 hours of fire fighting training prepares students for the State of Wisconsin Firefighter I and Firefighter 2 certification examinations. Completion of the EMT Basic Course also will provide the student with a diploma in Fire Service Certification.

French 1 - Liberal Arts Transfer

French 2 - Liberal Arts Transfer

French 4 - Liberal Arts Transfer

FRENCH 20802221

French 1 is for students beginning the study of French. It emphasizes development of basic communicative skills through practice in listening, speaking, reading and writing. Stresses vocabulary and grammar to enhance students' ability to speak and write in French. Study of customs and values provide an increased awareness of francophone cultures. On completion students are able to participate in uncomplicated conversations on everyday topics.

FRENCH 20802222

French 2 emphasizes continued development of more complex communicative skills through practice in listening, speaking and writing. Upon completion, students possess the listening, speaking, reading and writing skills necessary to handle simple, everyday survival tasks in francophone cultures. Vocabulary and grammar are studied to enhance students' abilities to speak and write in French.

FRENCH 20802223 French 3 - Liberal Arts Transfer 4 Credits/Units In French 3 a review of grammar from previous semesters is initiated and vocabulary is broadened. Emphasis is placed on speaking and writing in French in "paragraphs" as a full participant in a conversation. Everyday situations in francophone cultures, including education, family life, leisure activities and travel, will provide students with the opportunity to expand their survival skills in francophone cultures. Readings of cultural and literary significance will provide vehicles for discussion and composition.

FRENCH 20802224

This course is designed for the student who has completed three semesters of college French, or three years of high school French. The review of grammar from 20-802-223, French 3, is completed and vocabulary is broadened. Emphasis is placed on speaking and writing creatively in French on a variety of topics. Everyday situations in francophone cultures, including education, family life, leisure activities and travel, will provide students with the opportunity to expand their survival skills in francophone cultures. Readings of cultural and literary significance will provide vehicles for discussion and composition.

FSHNMKTG 10104118

Students in this course are responsible for the operation of Olivia's Gifts. Training in all aspects of store operation with special emphasis on selling, merchandising, pricing, loss prevention and visual presentation is stressed. Students are required to attend at least one trade show during the semester to help select merchandise for the store.

FSHNMKTG 10104120

This course focuses on the key tools and processes using Adobe Phototshop and other computer software programs that are part of technical specification design packets in the fashion industry. Students will be creating projects in major categories of fashion.

FSHNMKTG 10104122

This course focuses on the key tools and processes using Adobe Illustrator and other computer software programs that are part of technical specification design packets in the fashion industry. Students will be creating projects in major categories of fashion.

FSHNMKTG 10104123

Students analyze the buying and merchandising functions in various types of organizations. The principles, procedures and techniques practiced by merchandisers are studied. Students may have the opportunity to interview a buyer, visit a market, participate in a floor move in a local business, compile a resource folder of relevant tools for buyers, and/or complete a computer simulation.

FSHNMKTG 10104124

Upon successful completion of this course, the student should be able to describe and analyze retail store organization and operation including customer markets, store location and design, human resource management, merchandise planning and control, and retail promotion.

FSHNMKTG 10104127

Technical Design Specifications for Fashion Students will create garment sketches using Adobe software with product specifications and fit comments to apparel for a target market. Students will present a technical specifications packet of apparel based on research for a target audience as it is applied to the sketches.

FSHNMKTG 10104157

Fashion Internship

Retail Management

2 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

5 Credits/Units

4 Credits/Units

4 Credits/Units

Store Operations

Adobe Photoshop Fashion Design

Adobe Illustrator for Fashion

Merchandise Plan/Control

3 Credits/Units

3 Credits/Units



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Effective: 2016-2017

Internship offers practical work experience to third and fourth semester students in the fashion area. Experiences that cannot be acquired in the classroom environment provide the student with the opportunity to blend theory with practice in an approved work setting, offered in the summer semester.

FSHNMKTG 10104182

This course includes an overview of methods to searching for a position in the fashion marketing field. We explore on and off line methods of personal and academic assessment. Mock interviews, including a viewing of your portfolio work, will be video taped. Resume writing and personal correspondence are included in a personalized approach.

International Business in Fashion

FSHNMKTG 10104183

This course provides the student with the opportunity to interface with various aspects of the Fashion Business on an international level. Students gain exposure as to how marketing, design, and merchandising are approached abroad. An international trip is scheduled for approximately ten days to Italy in the Spring Semester every other academic year.

FSHNMKTG 10104186

This course is an integration of how social, political, and economic factors relate to fashion trends from the past to the present. Students focus on key elements to help understand consumer behavior.

FSHNMKTG 10104194

Visual Merchandising

Fashion Analysis

Apparel Marketing

History of Costume

Portfolio Presentation

The principles and elements of design are incorporated into a hands-on approach to interior and exterior merchandise presentation. Coordination of the total sales promotion effort is emphasized. Students are required to build many types of displays.

FSHNMKTG 10104195

Students work with the elements and principles of design as they relate to fashion promotion and products. Forecasting, creativity and a grasp of the influences and sources of design are major components of the course. Computer-aided design is used to enhance the course. Highly recommend concurrent enrollment with either Fashion CAD Lab, 10104198, or Adobe Illustrator for Fashion Design, 10104122.

ESHNMKTG 10104196 Textiles

Focuses on the technical information regarding fabrics and fibers required by apparel managers and merchandisers, and its application to merchandise buying and sales staff training.

FSHNMKTG 10104197

Students study the types of business enterprises, activities, operations, interrelationships and practices in the fashion industry. Careers in each of these areas are explored. This is a survey course with emphasis on terminology and key sources of information in the industry.

FSHNMKTG 10104198

Fashion CAD Lab This class focuses on fashion components using Adobe Illustrator. Students research and create a line of clothing using CAD.

GLBL ED 10140101

Traditional Healing in Cross Cultural Context is a study abroad course that will prepare general education and occupational students to experience how indigenous people embody the idea of health and healing in everyday life. In this interdisciplinary course, students will explore the concepts of traditional healing and indigenous cosmology as it relates to the health of the individual, the community, and the earth. Students will also engage in independent research and collaborative projects to support the formulation of a personal wellness philosophy. All students will participate in a service learning component as part of the course.

Traditional Healing in Cross Cultural Context

GLBL ED 10140107

This course is required for all students accepted into a Madison College sponsored semester-long Study Abroad program. It is designed as an introduction to and support of residence and study in another country. Students will learn cultural theories, learning styles, cross-cultural communication skills, and strategies for development of cross-cultural competencies. The course will facilitate the intense learning process that occurs when individuals are placed in a new cultural context and will challenge students to explore their own cultural assumptions.

GLBL ED 10140112

Renewable Energy for the Developing World

Students participate in a 10 day in-country service learning project in a developing world country, continuing with eight weeks of online coursework to extend their knowledge of energy production and use in the developing world.

GRDSGN 10201102

Design Fundamentals Students learn fundamentals of two-dimensional visual organization and problem-solving strategies for advertising layout, publication design, typographic and graphic design, and illustration.

GRDSGN 10201103

Drawing Fundamentals

An introductory drawing class emphasizing sound craftsmanship and a study of basic freehand drawing skills. Includes the study of perspective, proportion, and light and shade. Also covers the construction of solid forms.

3 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

1 Credits/Units

Perspectives on Study Abroad

3 Credits/Units



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GRDSGN 10201106 Illustration

Concentrates on creating reproducible line and continuous tone art in the areas of product, editorial and institutional illustration. The focus is on black and white illustration in a variety of media both traditional and digital. Students are encouraged to develop problem-solving techniques in both technical and conceptual areas.

GRDSGN 10201112

An understanding of color is achieved through the study and application of color systems and theory. A wide range of tools, techniques and media are used on a variety of assignments.

Color Media

Graphic Design

Print & Design Production

GRDSGN 10201121

Develops design concepts as they relate to the professional design field. Assignments include the development of logos, corporate identity, symbols, icons, and page designs.

GRDSGN 10201128

Practical training in layout and production of art. In a variety of increasingly complicated assignments, the student learns to solve realistic print design problems from rough layout through print-ready page production.

GRDSGN 10201136

Concept Development Introduces exercises and processes to foster creativity and the development of unique ideas for graphic design and advertising applications. Emphasis is placed on improving research, brainstorming, writing, speaking and critical thinking skills. Working individually, in teams and in groups, students will come up with unexpected solutions to realistic and contemporary industry problems. Visual presentations cover a wide range of levels of finish and incorporate traditional and digital media and rendering techniques.

GRDSGN 10201151

This course will explore the structure and form of type used in contemporary graphic design, the history of type, development, and terminology. Projects will incorporate both hand rendering and applied computer applications using Adobe InDesign, Illustrator and Photoshop.

GRDSGN 10201152

The focus of this course is on black and white illustration in a variety of media. Topics will cover creation of reproducible line and continuous tone art in the areas of product, editorial and institutional illustration. Traditional figure-drawing techniques and approaches with a concern for illustrative usage and figure indication for design and layout situations will be incorporated.

GRDSGN 10201153

Visual literacy and effective translation of complex information into informative graphics and illustration will be emphasized. Projects may involve television, environmental graphics, web graphics, as well as print.

GRDSGN 10201154

Through assigned projects students will explore marketing, research, advertising concepts, resources, budgets, and timelines. Activities related to assigned projects may include tours, demonstrations, handouts, speakers and independent research. Both traditional and electronic methods are explored. Techniques for successful project management, how to optimize your time and resources, and billable hours will be explored.

GRDSGN 10201155

WordPress for Designers

WebPage Design

This course will introduce the basics of creating web sites using Content Management Systems (CMS). Students will learn now to publish blogs, posts and pages, work with themes, employ widgets, create custom menus, activate plugins, and utilize page templates. Students will use self-hosted and cloud-hosted platforms. Additionally, the course will use HTML, CSS, Dreamweaver and other text editing software, and ftp software. Students are required to acquire server space to host their work.

GRDSGN 10201162

Students work to prepare a portfolio of their work for prospective employers. Students are supervised and assisted in choice and number of samples, and portfolio layout. Lectures are given on job interviewing and job markets. Faculty approval of a finished portfolio and internet presence is required for graduation.

Portfolio Preparation - Graphic Design Program

GRDSGN 10201177

Students will create several web pages increasing in complexity. This course teaches best practices for coding HTML and CSS, typography, graphics, animation, usability and accessibility. Students will be introduced to uploading files, server space and browser compatibility. Web page layout software is introduced. Exploration and analysis of existing sites on the web will also be a focus and source of information.

GRDSGN 10201178

Web Animated Visual Effects This course will introduce current methods for web animation and user interaction. Primary focus will be with HTML5, CSS, and JavaScript to produce animated effects and interaction appropriate for screen, tablet and mobile.

Madison Area Technical College

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

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Effective: 2016-2017

3 Credits/Units

Integrated Design

Typographic Design

Drawing for Illustration

Design Project Management

GRDSGN 10201181 Introduction to Computer Graphics 3 Credits/Units Introductory course in electronic layout and design, illustration, and photo manipulation, using the following Adobe Creative Suite software programs: InDesign, Illustrator, Photoshop, Bridge and Acrobat.

GRDSGN 10201182 **Applied Computer Graphics**

The students enhance their knowledge and skill in the use of design, illustration and page layout software through the creation of a variety of design projects. Emphasis on original, strong images and type integration, as well as preparing files for press.

GRDSGN 10201184

Emphasizes design and preparation of multiple-page publications incorporating text and graphic images, using sophisticated page layout software (InDesign) on the Macintosh computer. Includes output of high-resolution pieces, and creation of interative documents appropriate for viewing online.

GRDSGN 10201189

Web Design Project Management

Real client projects will provide opportunities to work in teams, manage projects, conceptualize, organize and acquire content, develop architecture and assemble a production plan. Advanced web page layout features such as templates, libraries, use of CSS, implementation of javascript and spry widgets will be introduced.

Advanced Web Page Design

Electronic Page Layout

Continues to focus on the design, page layout and graphic preparation skills necessary to produce full-functioning webpages. Students create several web examples, incorporating more complex features and skills. Practical exercises are implemented to focus on specific production skills. Design continues to be emphasized through examples, critiques and demonstrations. Information is delivered primarily through lecture, demonstration and hands-on learning exercises.

GRDSGN 10201198

This course will introduce essential strategies that make for successful websites and social media campaigns. Topics covered include: User Experience, User Research, Content Strategy, Information Architecture, Search Engine Optimization, Analytics, Accessibility, Social Media, and the Mobile Web. Students work on real world case studies to learn and practice skills that can be applied in any profession that works with social media or websites.

Social Media/Web Design Strategies

HISTORY 20803204

Making of Modern Europe

Renaissance, Reformation, and Revolution introduces the major political, economic, social and cultural trends, which characterize European society from the Renaissance through the French Revolution. The primary focus is an examination of the changes and conflicts that mark the transition from medieval society to Modern European society, and the impact that this transition has for individuals, groups, institutions, and the world view of Europeans in the early modern period.

HISTORY 20803205

Europe and Modern World This is an introductory course in European history concentrating on the 19th- and 20th-century experiences of European societies through examination of major social, economic, political and intellectual development. One emphasis is on the changes that caused the transformation of Europe from a pre-industrial to a modern industrial society. A second emphasis focuses on a specific place and time period in order to understand how this process of transformation affected different European nations at different points in their history.

HISTORY 20803206

British History Since 1688 - Liberal Arts Transfer

This course will consider and examine the historical developments behind Great Britain's transition from being a largely rural, aristocratically-governed, economically underdeveloped, and politically unstable kingdom in the seventeenth century to its becoming an urban, democratic and parliamentary, economically powerful, and politically stable nation (and empire) by the twentieth century. It will devote considerable attention to explaining how Great Britain shifted from having a constitutional monarchy dominated by the aristocratic elites to its developing a representative, parliamentary democracy that ultimately allowed for the son of circus performers (John Mayor) to serve as prime minister in the late twentieth century. The course will examine and anlayze why Great Britain served as the birthplace for what would be called the Industrial Revolution. More significantly, British History since 1688 will further investigate how the British government moved from supporting laissez-faire capitalism in the first half of the nineteenth century to constructing the collectively-inspired welfare state after World War II. This course will examine the creation, exploitation of, and the dissolution of the British Empire and analyze how the empire's creation and dissolution has affected British imperial and domestic history--especially how the immigration of former "imperial subjects" to Great Britain has profoundly affected the ethnic, religious, and cultural composition of what has been assumed to be a homogenous nation.

HISTORY 20803211

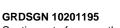
Am Hist 1607-1865 In this course the origin and growth of the United States is studied. It also surveys American political, economic and social development from the founding of the colonies through the Civil War.

HISTORY 20803212

MADISON AREA | TECHNICAL COLLEGE Am Hist 1865-Pres.

3 Credits/Units

3 Credits/Units



2 Credits/Units

3 Credits/Units

Effective: 2016-2017

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units



American History 1865 to the Present is an introductory survey course covering political, social and cultural trends in the United States between the end of Civil War and the present. In addition to presenting what happened in the United States during this period, the course explores the diverse sources historians use to explain the past.

HISTORY 20803214

Native American History - Liberal Arts Transfer

Native American History is a survey course focusing on Native American cultures and histories from early times to the present. Particular attention is placed on the variety of lifestyles of native peoples, their early reactions to Euro-Americans, outstanding native leaders, assimilation efforts and relations with the U.S. government. Completion of 20-803-211, American History 1607-1865, or 20-803-212, American History 1865 to Present, is recommended.

HISTORY 20803215

American History Since 1945

This is an intermediate-level history course that explores the social, cultural, political and diplomatic history of the United States since the end of World War II. In addition to discussing what occurred in the past, the course concentrates on the sources historians use when telling their stories. The course requires strong analytical skills and a willingness to think independently.

HISTORY 20803220

History Of West Civilization 1

This course introduces students to the history of western culture using the materials from the humanities, including history, art, architecture, literature, drama, philosophy and religion, and music. Course examines the history of western societies from the earliest civilizations up to the Renaissance (approx. 3000 BC to 1500 AD). Class will discover and explore the cultural legacy created by past societies that we embrace as part of western culture and to evaluate the style or cultural essence of the different peoples who have made important contributions to that culture. Students explore historical materials that reflect the human response to physical and social experiences in order to discover what being human involves over time in different places and situations. We also explore the humanities materials to discover how humans have expressed their humanity.

HISTORY 20803224

History of Sub Saharan Africa History of Sub-Saharan Africa is an introduction to the civilizations of Africa from early man through the present that focuses on African society before western penetration, the basic nature of African institutions, the colonial experience of Africa and the development of Africa since independence in 1960.

HISTORY 20803225

World In 20th Century

This course focuses on the emergence of a global society in the twentieth century through a chronological examination of the events and trends, which created a more closely connected world, resulting in a "global society" by the end of the century. The course approaches the history of this century through emphasis on themes of particular significance to the creation of global society. Themes include globalization, the growth of mass culture, technology, ideology/religion, and the varied responses of different cultures to the ideas and events of the century.

HISTORY 20803226

East Asian Civilization will explore the historical, cultural, social and philosophical roots of East Asia. East Asia or the Pacific Rim includes China (also Taiwan, Hong Kong and Macao), Japan, Korea and Mongolia. This area is expected to be the newest economic and political powerhouse and has led many scholars to already name the 21st century the "Pacific Century." The purpose of this course will be to introduce students to this vast, complex and strategic area by primarily using history and culture. It will stress major themes in East Asian civilization and these themes will connect to form a whole picture.

HISTORY 20803229

Vietnam/American-1945-Present

This course will survey the intersection of Vietnamese and American history from 1945 to the present. It will examine the roots of our involvement in Southeast Asia after World War II through the defeat of the French in the 1950's. It will explore the principal causes and effects of the expanded war in the 1960's both in Vietnam and in the United States-upon Americans and upon Vietnamese. It will conclude with a section discussing the legacy of the war exploring continuing issues like U.S./Vietnamese relations, Southeast Asian refugees in the U.S. and the effect of the war on veterans.

HISTORY 20803230

Women In History Public Man, Private Woman: Bronze Age to Glass Ceiling introduces students to women's history, specifically the various roles played by and assigned to women in western societies and focusing on the question of how and why women's lives have changed during the past thirty centuries. Students will examine women's experiences and their images in the past by analyzing the lives of selected notable women as well as broad categories of women, e.g. prostitutes, peasant wives, noblewomen, feminists. The traditional historical periods covered include the Ancient (Greece and Rome), the Medieval (Europe) and the Modern (Europe and the U.S. since 1500).

HISTORY 20803233

MADISON AREA | TECHNICAL COLLEGE

Gender and Women's History in Cultural Representations

Introduction to gender and women's history from pre-history to the 19th century from a humanities perspective. We will develop a critical analysis by studying cultural representations of women and men within the social and historical context of race, class, gender, sexuality. Our analysis will be shaped by an intersectional approach, which means that gender will always be examined in interaction with race, class, sexuality and dis/ability to reveal how identities and systems of power are shaped by multiple forces. We will study a range of cultural representations ranging from literary and visual arts, to mass media, to material, to political to explore how gendered representations produce social, political and personal implications.

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Real world smart.

East Asian Civilization

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

Real world smart.

Madison Area Technical College

HISTORY 20803234 Gender and Women's Global History 3 Credits/Units Introduction to gender and women's history from the 19th century to the present with a global perspective. Students will be asked to think critically about the power relations that affect the lives of diverse women in the U.S. diverse in terms of race, class, ability, sexuality and other markers of power-and will be asked to contemplate the positions of diverse women from around the world.

HISTORY 20803240

Broad introductory survey of significant experiences that have shaped U.S. race relations, beginning with the west coast of Africa during the Middle Ages and moving through the last 30 years of this century in the United States. Special attention is given to slavery, family, politics, education and civil rights.

HOSPT 10109101

Introduces new students to the broad spectrum of the leisure services industry. Typical career areas include food service, lodging, travel/tourism, and recreation. The course explores educational options and program career opportunities as well as historical and operational perspectives of the career areas mentioned.

HOSPT 10109125

Hospitality Leadership Introduces theories, principles and practical application of management skills in the hospitality and tourism industry. Students

Afro-American History

Exploring Hospitality

analyze their current skills and develop a personal management philosophy appropriate to the service industry. HOSPT 10109131 **Rooms Division Operation** 3 Credits/Units

Investigates the organization, performance and evaluation of the rooms division of a lodging facility (front desk, reservations, housekeeping and telephone systems) as essential components of operational success and guest satisfaction.

Hotel/Restaurant Cost Control

HOSPT 10109134

Cost Control presents concepts and techniques of cost control in the hospitality industry. Students select and apply methods, procedures and systems to control costs, and analyze the application, theory and concepts. Focuses on concepts for hospitality and tourism managers who are responsible for making strategic and proactive decisions to maximize revenues in a cost efficient way. Fixed product supply and varying consumer demand make this a challenge. These managers must dedicate critical attention to core product revenue maximization due to the perishable (time-sensitive) nature of a service based product. Performance in this task is measured within the firm's revenue management system, where the goal is to generate maximum revenue

HOSPT 10109136

Hospitality Law

Hospitality Internship

Global Studies Seminar

A preventive approach to the laws and liabilities, as well as responsibilities of owners/operators of hotels, restaurants and travel facilities. Reviews precedent-setting court decisions, legal fundamentals, negligence doctrines, civil rights issues and the relationship between providers and the guests/clients.

HOSPT 10109157

Provides on-the-job field experience required for graduation from the program. Requirements include fifteen hours per week of work experience, a written report analyzing four major management responsibilities, and a professional oral presentation of the written report.

HOSPT 10109182

This unique learning and travel experience gives students the opportunity to enhance their understanding of the global marketplace. Upon completion of the course and travel students will be familiar with the history, culture, social and business issues of the host country. Students will examine current trends and business practices relating to (but not limited to) management, marketing, hospitality and global strategies. Participation in this course requires travel to the host country. This experience is designed to help students develop a lifelong global mindset and to enhance abilities to communicate, work on international teams and think creatively.

HRMGT 10116145

Topics include: the nature of human management, strategic human resource planning, issues in human resources, planning, equal employment opportunity, analyzing and staffing jobs, training and developing human resources.

HRMGT 10116147

Topics include: Basic systems and plans of compensating employees, incentives and executive compensation, principles and techniques in the administration of employee benefit programs.

Introduction to Human Resources

HRMGT 10116148

Topics include employee rights and discipline; union-management relations; collective bargaining and grievance management; and assessment systems.

HRMGT 10116149

Effective Staffing This course provides a comprehensive approach to planning for staffing; employing a wide range of recruiting methods; and identifying optimal selection methods.

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units





Wage, Salary & Benefits Admin

Labor Relations

HRMGT 10116152

Organizational Training and Development

This course provides an overview of the Training and Development function in organizations. There will be many opportunities to design and practice methods for planning for training, needs analysis, management development, and organization development. Students will learn effective techniques for on-the-job training, developing job aids, and designing classroom instruction. Introductory information on topics such as embedded learning, e-learning, and simulations will also be included.

HRMGT 10116153

Meeting Facilitation

This course provides both information about meeting facilitation and an environment for practice. The ultimate goal is for students to learn to conduct effective meetings.

HRMGT 10116168

Employment Law Topics include: unemployment compensation laws; workers' compensation laws; hiring and firing practices; sexual harassment in the workplace: the Americans with Disabilities Act: and labor law basics under the National Labor Relations Act. Course examines current "black letter law" together with case decisions. Content is appropriate for persons whose career plans involve employee management.

HRMGT 10116169

Human Resources Capstone

This final course in the Human Resource Management program integrates and enhances knowledge and skills developed throughout the program. Topics include staffing, labor relations, compensation, training and development, and employment law.

HUMSVC 10520105

3 Credits/Units Introduction to Human Services Examines the scope, values and principles of the human service profession. Introduces the typical roles and duties of human service workers. Students assess their own motivations, attitudes and interests. In addition to the regular classroom hours, 45 hours of volunteer work in a community human services agency are required. Prerequisites: Human Services Associate course prerequisites.

HUMSVC 10520106

Orientation to Human Services Populations Introduces social problems that contribute to the dysfunction of individuals, groups, families and communities. Addresses problems, needs, conditions and events that bring people to human service organizations. Prerequisites: Human Services Associate course prerequisites.

HUMSVC 10520116

Group Work Skills

Students learn principles and techniques needed to lead informational and supportive groups based on the solution- focused model. Students practice group work skills during class. Prerequisite: 10-520-117.

HUMSVC 10520117

Interviewing

Students learn principles and techniques needed to conduct informational and supportive interviews. Students practice interviewing skills during class. Prerequisites: Human Services Associate course prerequisites.

HUMSVC 10520120

Focuses on characteristics and functions of human services organizations and the roles of human service workers in those organizations. Covers organizational skills of assessment, planning, budgeting, grant writing, evaluation and consulting. Prerequisite: 10-520-105.

Community Service Agencies

HUMSVC 10520130

Social Change Skills

Introduces principles and strategies of planned change and the role of human services workers as community organizers. Covers how consumers affected by a social problem can clearly define an issue, set a goal and organize to bring about social change. Prerequisite: 10-520-106.

HUMSVC 10520135

Issues in Alcohol and Other Drug Abuse Provides students with a basic understanding of the use and abuse of alcohol and other drugs. Emphasizes historical and social perspectives on drug use, trends of use and legal and social responses to illicit drug use. Additionally, this course provides an accurate description of the effects of psychoactive drugs, identifies methods of substance abuse treatment and introduces the student to local treatment services. Prerequisites: Human Services Associate course prerequisites.

HUMSVC 10520136

Counseling Alcoholics and Other Drug Abusers

3 Credits/Units Trains students in basic listening and responding skills, familiarizes students with the 12 core functions performed by AODA counselors (screening, intake, orientation, assessment, treatment planning, counseling, case management, crisis intervention, client education, referral, reports, record keeping and consultation) and provides a structured learning environment in which students can develop skills in these core functions.

HUMSVC 10520139

Human Services Agency Experience 1

4 Credits/Units



3 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units

Effective: 2016-2017

Students develop skills as human services workers by working directly or indirectly with clients in community agencies 16 hours per week. An agency supervisor and a faculty member closely supervise students. The human services staff makes field placement assignments. Prerequisites: 10-520-105, 110-520-116, 10-520-117 and concurrent enrollment in 10-520-188.

HUMSVC 10520140

Human Services Agency Experience 2 4 Credits/Units Students continue their on-the-job training in community agencies for 20 hours per week. By the end of the course, students have the skills of an entry-level human services worker. Prerequisites: 10-520-139 and 10-520-188, and concurrent enrollment in 10-520-189.

Psychopharmacology

HUMSVC 10520141

Intro Comm Mental Health Introduces the major diagnostic categories of mental illness, with a focus on the psychiatric management of these mental illnesses. Examines the unique treatment needs of people who have a coexisting psychiatric-disorder and substance-abuse problem.

HUMSVC 10520142

This course uses a bio-psycho-social framework to explore the use and misuse of psychoactive drugs. We will learn about the interactions between chemicals and neurons, the psychological and physiological effects on the individual, the impact the individual has on society and the role culture may have on substance misuse and treatment. In addition, we will explore topics relating to biology, pharmacology, neuroscience, chemistry and further our understanding on history, law, sociology and the political climate. The intent of this course is to instill a better understanding of why people use drugs, what effects drugs have on people, the intersections of the individual within the larger systems and various treatment approaches.

HUMSVC 10520150

AODA Special Populations 3 Credits/Units Provides an understanding of the unique AODA concerns, problems and needs of particular special populations, including youth, women, older adults, people with disabilities, gays and lesbians, ethnic and other minority groups.

Human Services Counseling Skills

HUMSVC 10520157

Introduces basic concepts of ego counseling, Rogerian counseling, transactional analysis, rational-emotive therapy, reality therapy, narrative therapy and solution focused therapy. Covers how counseling theories identify and define problems, explain personality development and treat problem situations. Prerequisites: 10-520-116 and 10-520-117.

HUMSVC 10520188 Human Services Experience Conference 1 A small-group seminar designed as a companion/supportive course to the agency experience. Relates theory and principles of practice to agency field-study experience. Students learn to develop supportive relationships with clients and apply the values of confidentiality and client self-determination. They learn how their values and personal experiences affect their work with clients. Prerequisites: 10-520-105, 10-520-116, 10-520-117 and concurrent enrollment in 10-520-139.

HUMSVC 10520189	Human Services Experience Conference 2	3 Credits/Units
Students develop skills specific to the	eir fieldwork placement and complete a major project to en	hance their cultural competence.
Taken concurrently with: 10-520-120) and 10-520-140. Prerequisites: 10-520-139 and 10-520-1	88.

HVAC 50401590	Trade Hvac Semester 1	2 Credit
This course description is ur	navailable at this time. Please contact the center offering	the course for more information.

HVAC 50401591 Trade Hvac Semester 2 This course description is unavailable at this time. Please contact the center offering the course for more information.

HVAC 50401592 **Trade Hvac Semester 3** 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

HVAC 50401593 **Trade Hvac Semester 4** This course description is unavailable at this time. Please contact the center offering the course for more information.

HVAC 50401594 **Trade Hvac Semester 5** This course description is unavailable at this time. Please contact the center offering the course for more information.

HVAC 50401595 **Trade Hvac Semester 6** This course description is unavailable at this time. Please contact the center offering the course for more information.

HVAC 50401596 **Trade Hvac Semester 7** This course description is unavailable at this time. Please contact the center offering the course for more information.

HVAC 50401597 **Trade Hvac Semester 8** This course description is unavailable at this time. Please contact the center offering the course for more information.

Industrial Fluid Distribution Systems

IND MECH 10462304



Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

- its/Units
- 2 Credits/Units

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Real world smart.

Madison Area Technical College

Covers installation and repair of fluidic systems. Includes fittings, thread cutting, pipe sweating, roll grooving, solder, plastic cementing, repair equipment and tools. Pumps, valves, water supply systems and fire protection distribution systems covered.

Industrial Equipment Mechanisms 2

Industrial Maintenance Mechanic 2

Metal Processes Maintenance

Industrial Maint Mechanic 1

IND MECH 10462306

Includes machine shop operations, sheet metal work, soldering and brazing, forging and heat treatment, grinding, tool sharpening, metal casting and other metal applications as related to industrial machinery repair.

IND MECH 10462311

Mechanical drive components and systems are studied with emphasis on selection, application, and proper installation techniques. Includes hands-on assembly, alignment, lubrication, and disassembly of drive shafts, bearings, seals, gaskets, belt, chain and gear drives, clutches and brakes, couplings and universal joints, linear motion components, and power transmission accessories.

IND MECH 10462314

Emphasizes basic tools used for maintenance. Presents information on lock out/tag out, confined space and safe rigging practices, manufacturing machine types and operations, torque, metal properties and hardness, gaskets, pumps, gears, motors, pulleys and alignment.

IND MECH 10462316

Emphasizes on-the-job installing, troubleshooting and maintaining manufacturing systems with special focus on automated systems. This course is completed as an internship.

IND MECH 10462318

Maintenance Management

DC/AC Circuits

Emphasizes maintenance management and quality control techniques to give maintenance students an understanding of their roles in an organization. Covers maintenance record keeping, parts ordering and shop operation.

IND MECH 10462320

Introduces the practical DC/AC concepts including electrical quantities and components and measurement instruments for AC and DC circuits used in commercial, industrial, and sustainable energy fields. Students measure voltage, current, resistance and power for single and three phase AC and DC sources. Also covers fundamentals of magnetism in electrical components, calculations of electrical components.

IND MECH 10462322

Industrial Electricity and Controls

Studies basic principles related to electro-mechanical systems as well as motors, transformers, frequency drives and various electro-mechanical devices to enhance AC power distribution and control systems. Introduces programmable logic controllers in the on/off mode.

IND MECH 10462324

Fundamentals of programmable logic controller (PLC) installation, interfacing, operation, and programming. Students learn about PLCs connected to Windows-based PCs running state-of-the-art programming tools. Students study discrete and analog input and output; hardware sensor interfacing and troubleshooting techniques; fundamentals of digital systems and will program PLCs using timer, counter, latch, data movement, sequencing, integer arithmetic and other instructions.

IND MECH 10462326

Programmable Logic Controllers 2

Electronic Circuits for Maintenance

Programmable Logic Controllers 1

Advanced programmable logic controller (PLC) installation, interfacing, operation, and programming. Students learn how to connect advanced PLCs in a typical industrial PLC network utilizing Ethernet, DH+, RS232 and RIO communication paths. Data sharing and distributed PLC programming techniques along with fundamentals of touch panel programming and operation are studied.

IND MECH 10462327

Presents semiconductor devices with an emphasis on their practical use. Students construct and troubleshoot power supplies, amplifiers, electronic switches, relay drivers, photo-optical isolators and power control electronics. Students learn to identify and troubleshoot diodes, bipolar transistors (BJTs), field-effect transistors (FETs), silicon controlled rectifiers (SCRs and Triacs), lightemitting diodes (LEDs) and other components found in industrial electronics.

IND MECH 10462328

Interfacing Sensors with Computer Controls Applies various sensors to analog input modules of programmable controllers and to A/D converters for computer systems.

IND MECH 10462330

Heating and Air Conditioning 1

Covers basic environmental equipment maintenance. Presents applications of HVAC components, refrigeration controls, condensers, hydronics, boilers, heat exchangers, dampers, compressors, plumbing, pumps, measurement, blowers and preventive maintenance/repair. Also covers EPA CFC certification.

IND MECH 10462332

MADISON AREA | TECHNICAL COLLEGE

Heating and Air Conditioning 2

Advanced environmental equipment installation and maintenance course which puts the theory learned in 32-401-308 into practice including boiler competencies.

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4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

2 Credits/Units

1 Credits/Units

3 Credits/Units

2 Credits/Units

IND MECH 10462334

Covers safety, schematics, wall framing, electrical services, insulation, drywall applications, painting, floor applications, roofing and siding applications. Includes the study of appropriate applications of material to facilities.

IND MECH 10462336

Studies computer-based energy and building control systems in detail. Includes sensing devices, pneumatic and otherwise, as well as basic energy efficiency calculating. Also presents and discusses cost- and energy-saving ideas and plans.

Manufacturing Systems, Application and Control

IND MECH 10462340

Introduces computer control systems and fundamentals of motion control. Presents programmable logic controllers (PLCs) along with design, integration and troubleshooting techniques.

IND MECH 32462303

Studies basic principles of physics specific to electro-mechanical systems. Emphasizes measurement, lubrication, energy, power, machines and fluid and chemical properties, as well as installation, timing and synchronization of machine drive components. Includes hands-on disassembly and assembly of industrial components.

Industrial Equipment Mechanisms 1

IND MECH 32462306

Industrial Fluid Power 1

Safety for Industry

Facilities Maintenance

Building Automation

Fundamentals of fluid power (hydraulic and pneumatic) and its components as well as principles, functions and terminology. Covers the application of basic fluid power systems to various machines along with maintenance and troubleshooting.

INDMANUF 10623100

This course reviews basic safety standards for industry as outlined by OSHA. Designed for general industry workers, it focuses on identification, avoidance, control, and prevention of safety and health hazards a worker may encounter on a general industry site. Those who successfully complete the hourly and course requirements receive an OSHA 10-hour completion card. The Manufacturing Skill Standards Council MSSC) safety standards are also reviewed.

INDMANUF 10623200

Interpreting Engineering Drawings

Focuses on the basic principles of engineering drawings and manufacturing processes. Through interpretation and sketching, students learn to visualize the part, section or assembly views. Students study isometric and orthographic views on a drawing. The student will also use drawings pertinent to the trades with examples in GD&T, welding, facilities, piping, sheet metal, equipment manuals, electrical symbols, and fluid power symbols.?

INDMANUF 10623300

Fluid Power 1 for Industry

Provides students with the fundamentals of fluid power (hydraulic and pneumatic) and a considerable literacy in the principles of pneumatics and hydraulics. Students will attain an understanding of basic pneumatics principles and practical circuits applying the recently learned principles. The course is intended to gain a general understanding of components and terminology as well as principles and functions. This course has a heavy emphasis on recognizing fluid power components, component symbols, units, equations, and terminology.?????

INDMANUF 10623301

Fluid Power 2 for Industry Intended to develop an understanding of basic Fluid Power Circuits. Covers the application of basic fluid power systems to various machines along with maintenance and troubleshooting. The maintaining and design considerations of both hydraulic and pneumatic systems will be explored in this course with an emphasis on component selection and circuit efficiencies.

INDMANUF 10623310

Mechanisms for Industry 1 This course is an introduction to the mechanical systems, with lab exercises in safety procedures, Lock-out Tag-out (LOTO), key and setscrew fasteners, speed and torque measurements, efficiencies, shafts and pillow block, shaft alignment, flexible and rigid motor soft foot detection and correction. The course will survey precision measurement, lubrication, bearing types and applications, vibration analysis, and fasteners.

INDMANUF 10623408

Learn to visualize, sketch and create 2D drawings in a wide variety of disciplines using AutoCad. The course will introduce the creation and revision drawings pertinent to the trades with examples in Welding, Facilities, Piping and Instrumentation (P & ID's), Sheet Metal, Equipment Manuals (technical documents, installation/repair manuals), Electrical, and Fluid Power Facilities and Mechanical Drawings.

INDMANUF 10623409

2 Credits/Units Computer-Assisted Design-3D Introductory study of working with simple 3D sketches and partly, creation. Strong emphasis on working with existing assemblies, and understanding component relationships. Students will work with OEM component 3D models and manipulating them into assemblies. Students will gain an understanding of drawing sets, and bill of materials.

INDMANUF 20623260

MADISON AREA | TECHNICAL COLLEGE Introduction to Engineering

3 Credits/Units

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Computer-Assisted Design-2D

1 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

This course provides students with an overview of engineering based on a "hands-on" experience with a client-centered engineering design project, which includes: 1) a team-based design project, 2) a survey of engineering disciplines, 3) an introduction to computer tools and lab techniques, and 4) management of a project budget. Instruction will include an introduction to technical fabrication skills required to produce a prototype design product. This course is intended for students intending to transfer to four-year engineering degree programs. Prerequisite: Students must have previously completed a minimum of 12 credits of college transfer course work, including 20-804-231 Calculus and Analytic Geometry, with a cumulative GPA of 2.5 or more.

INDSGN 10304100

Survey of the Interior Design Profession This course is required for all students accepted into the Interior Design Program and is taken during the summer prior to their Fall enrollment. Focuses on the interior design profession, the personal qualities and aptitudes of the interior designer, and the broad range of career opportunities and tasks performed. The course also offers students an introduction t the requirments and demands of the program and a career in the interior design industry.

INDSGN 10304102

Fundamentals of Design

The focus of this course is on the principles and elements of design that form the conceptual basis from which to solve and evaluate design problems.

INDSGN 10304104

Basic Architectural Drawing

This course will introduce students to basic manual and computer-aided drawing for interior design. Students will learn how to properly use equipment and produce two-dimensional drawings.

INDSGN 10304105

Building and Furniture Construction 3 Credits/Units This course will provide the student with a foundation of knowledge to interpret blueprints and identify building construction methods, materials, and systems. Students will also examine building codes and basic furniture construction, as well as performance features.

INDSGN 10304107

Interior Design Textiles

Residential Design 1

Materials and Finishes

Students study fibers, yarns, fabric construction and terminology, finishes, and performance criteria. Emphasizes specification of textiles for interior design applications.

Advanced Architectural Drawing

INDSGN 10304120

This course will build on the Basic Architectural Drawing coursework and further develop student skills in computer-aided drawing techniques for interior design. Computer-aided three-dimensional modeling will also be introduced and explored as a method to communicate design.

INDSGN 10304125

This course builds knowledge of human factors, codes, and professional standards as they relate to residential furniture arrangements and interior spaces. Students apply their knowledge of the elements and principles of design, architectural drawing standards, and building construction methods to design and document functional and aesthetically pleasing residential interiors.

INDSGN 10304127

This course will focus on interior finish products and their applications. Students will learn to specify and calculate quantities of materials using industry standards.

INDSGN 10304129

This course will focus on periods of art, artists, architecture and furniture from Egyptian times to the 21st century.

INDSGN 10304132

Kitchen & Bath Design

Commercial Design

History of Interior Design

Focuses on designing kitchens and baths, including the specification of cabinets, countertops, appliances, fixtures, materials and finishes. In addition, students develop the CAD skills necessary to produce typical project drawings and documentation for a kitchen design problem using a kitchen cabinet software package.

INDSGN 10304133

Focuses on the design, specification and documentation of commercial office spaces using conventional furniture and open office systems. Students apply their knowledge of materials, finishes, furniture, lighting and building construction through all phases of the design process. In addition, students further develop CAD skills necessary to produce project documentation and presentations for a comprehensive commercial design problem.

INDSGN 10304135

Lighting

This course focuses on light sources, luminaire options, the quality and quantity factors of lighting specification, and the lighting plan and schedule. Students design and specify a residential lighting plans.

INDSGN 10304142

Sales & Professional Practice

3 Credits/Units Covers essential interior design business practices and procedures, including business formations, fees, contracts, project management, business forms and record keeping. Professional work conduct and interior design sales techniques are also covered.

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Real world smart.

3 Credits/Units

2 Credits/Units

3 Credits/Units

5 Credits/Units

5 Credits/Units

2 Credits/Units

1 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

INDSGN 10304143 **Residential Design 2**

Students demonstrate their accumulated skills through the resolution of a comprehensive residential design project.

Interior Design Internship

Portfolio Development

INDSGN 10304145

Provides an opportunity to gain practical work experience through supervised internships at an approved job site to gain practical knowledge of the interior design skills learned in the classroom.

Trends and Issues in Interior Design

INDSGN 10304146

This course provides the opportunity for students to learn and investigate current topics and trends in the interior design field. Topics include Universal Design and Aging-in-Place principles and Sustainability/Green Design practices.

INDSGN 10304147

This course will provide students with direction and guidance to develop and prepare a professional portfolio for both the Annual Portfolio Show and employment. Students will investigate a variety of manual and digital methods allowing for effective representation of their skills and strengths.

INDSGN 10304161

Visual Communication for Interior Design 3 Credits/Units Students develop skills in manually sketching and rendering three-dimensional drawings of interior spaces to communicate design concepts. Additionally, students create professional-quality presentation boards and visual displays using both physical and digital methods.

INSMGT 10162125

Intro to Business Insurance Contracts (AAI 82) This course provides an understanding of the insurance protection any business should have. Whether you plan on owning your own business or managing a business or department, this course provides valuable information. A comprehensive study of policy language and coverage for Commercial General Liability, Commercial Auto, Worker's Compensation, Crime, Bonds, Umbrella, the BOP and Commercial Property is reviewed.

INSMGT 10162126

Introduction to Loss Investigaton (AIC 33) The claim function, factors influencing claims, the steps involved in analyzing, negotiating, and litigating first and third party claims, and the basics of property and liability losses will be covered in this class.

INSMGT 10162131

Introduction to Employee Benefits

This course focuses on the principles of individual and group health coverage, disability insurance, individual and group life insurance, paying life insurance proceeds, ownership rights, beneficiaries, and supplemental benefits of life insurance.

INSMGT 10162133

Managing Business Risks

This course will serve as a core. Risk Management is a foundational concept in insurance today. The legal foundations of loss exposures, the risk management process, and risk management programs will be discussed for all areas.

INSMGT 10162135

The course will cover all of the major methods employees uses to commit occupational fraud. Students learn how and why occupational fraud is committed as well as how the conduct can be detected, deterred, investigated and resolved.

INSMGT 10162136

Current Issues in Risk Management and Insurance 1 Credits/Units This course focuses on trends and issues facing the Risk Management and Insurance Industries. Presentations on current topics, and tours of facilities, are provided by Risk Management firms and Insurance organizations. Locations vary each semester but travel is required with this course. Check with the instructor for current travel plans and costs prior to enrolling.

INSMGT 10162140

Risk Management and Insurance Internship Provides an opportunity for students to apply insurance and/or risk management skills in a real life business environment. These paid internships may be in insurance agencies, insurance companies or other risk management settings. Duties may vary depending on the opportunity. Written assignments affiliated with the internship will also be required. Reserved for students enrolled in Risk Management and Insurance studies either in the Certificate program or as a focus in their current major. Students must have completed at least one degree credit insurance course.

IT 10107111

Exploration of Information Technology

Introduces students to the various careers available in the vast field of Information Technology and examines the Network Specialist, Mobile Applications Developer, Web Software Developer, Computer Systems Administration Specialist, Help Desk Specialist, and Security Specialist career paths. Students create an individualized career path plan as the capstone project for the course.

IT 10107175

Introduction to planning and organizing a search for careers in information technology. Activities include the development of a personalized job search plan, correspondence and portfolio.

MADISON AREA | TECHNICAL

COLLEGE

1 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

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Preparation for an IT Career

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

3 Credits/Units

Detecting Employee Fraud

Real world smart.

Madison Area Technical College

ITNET 10150121

Intro to Cisco Networking

Cisco Networking 2

Cisco Networking 3

This is an introductory course that introduces the architecture, structure, function and components of computer networks. Dynamic and static routing will be introduced. Students will learn technology concepts with the support of interactive media and apply and practice this knowledge through a series of hands-on and simulated activities. NOTE: Must take Cisco Networking 2, 10150122, within one year of completion of Intro to Cisco Networking, 10150121.

ITNET 10150122

Students learn how to configure a router and a switch for basic functionality. Students will be able to configure and troubleshoot routers and switches and resolve common issues with protocols, virtual WANs and inter-VLAN routing in both IPv4 and IPv6. NOTE: Must follow Intro to Cisco Networking, 10150121, within one year.

ITNET 10150123

Students learn how to apply the internetworking skills from Intro to Cisco and Cisco Networking 2 by building networks using EIGPR, multi-area OSPF, Spanning Tree Protocol, and Link Aggregation. NOTE: Must follow Cisco Networking 2, 10150122 within one year.

ITNET 10150124

Cisco Networking 4

Students learn how to connect networks using WAN circuits, including PPP, Frame Relay and Broadband Solutions. Students will also implement NAT and become introduced to Virtual Private Networks and network monitoring. NOTE: must follow Cisco Networking 2, 10150122, within one year.

ITNET 10150127

This class provides students with the tools they need to perform common administrative functions in some of the most popular scripting environments. The class will examine PHP in the context of an Apache webserver, and then it will examine using GNU BASH and Microsoft PowerShell scripting from the command line to complete every day administrative functions. Tools include: Bash, PHP, Apache, and PowerShell.

Systems Administration Security

Web Application Security

ITNET 10150129

This course provides a broad overview of the tools and techniques commonly used for web application security testing. In depth hands-on exercises are used to instruct the student in the proper selection and application of a given tool for the intended task. Also included are basic strategies for documenting and reporting on the outcome of the test. The student must demonstrate the ability to plan, and execute a basic web security audit in an environment that simulates a common business or organization. Open Source tools include: The BURP suite, Python, etc...

ITNET 10150150

VoIP Convergence Fundamentals

This class prepares students for the Cisco CCNA-Voice certification. It will introduce students to the terms and definitions of Analog phone systems and Voice over IP (VoIP) networks. Topics included in this course will be configuring and maintaining an IP Telephony system, provisioning phones and users, configuring call features, and establishing voicemail. Cisco Call Manager, Call Manager Express, Cisco Unity Connection Voicemail, and Cisco VoIP phones are used to configure and build a converged IP telephony infrastructure suitable for a business. Troubleshooting will be emphasized.

ITNET 10150151

Advanced Networking Topics

This class introduces more advanced networking topics from the CCNP exams, such as: Implementing VLAN based solutions with secure layer 2 and layer 3 services, implementing High Availability in a LAN and WAN, implementing QoS on converged networks, specific IP QoS mechanisms for implementing the DiffServ QoS model, wireless security and basic wireless management. Quality of Service (QoS) will be used to design and implement a structure to prioritize voice and data applications across the network. Wireless will include mobility between lightweight access points. Troubleshooting and teamwork will be emphasized.

ITNET 10150155

This class will focus on preparing the student to take the Cisco CCNP Route certification exam. Topics will cover the current version of the certification exam such as: Network Principles, Layer 2 and 3 Technologies, VPN Technologies, and Infrastructure Security and Services. This class is set up as a remote access instructor-led class.

ITNET 10150160

Provides a basic survey of the importance of IT security awareness and data confidentiality. This course walks users through basic aspects of information security in a very broad, easy to understand way and explains the value of securing data. The course will also present best practices in access control and password policies.

ITNET 10150164

Penetration Testing

IT Security Awareness

CCNP Route

This course provides a broad overview of the tools and techniques commonly used for penetration testing. In depth hands-on exercises are used to instruct the student in the proper selection and application of a given tool for the intended task. Also included are basic strategies for documenting and reporting on the outcome of the test. The student must demonstrate the ability to plan, and execute a basic network security audit in an environment that simulates a common business or organization. Open Source tools include: NMap, Metasploit, Medusa, etc...

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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

ITNET 10150185

Computer Forensics

Security Design

This course provides a broad overview of computer forensics and investigation tools and techniques. All major personal computer operating system architectures and disk structures will be discussed, as well as what computer forensic hardware and software tools are available. The details of data acquisition, computer forensic analysis, email investigations, image file recovery, investigative report writing, and expert witness requirements. The course provides a range of laboratory and hands-on assignments that teach about theory as well as the practical application of computer forensic investigation. Open Source tools include: The Sleuth Kit, dd, Scalpel, etc...

ITNET 10150193

This course affords the network security specialist the opportunity to design a secure network in a team environment using the skills learned from the prerequisite classes. The student must demonstrate the ability to design, plan and execute an infrastructure that represents the services offered by a common business or organization. The student will research their part of the design and must prepare written document including notes, diagrams, references, and implementation instructions of their part of the total design.

ITNET 10150194

Firewall/VPN Technologies

This course introduces the security student to the common technologies used for defending the perimeter of a modern business network. In depth hands-on exercises are used to instruct the student in the related technologies including NAT, PAT, ACL construction, application gateways, and stateful packet inspection. The student additionally learns a common implementation of both site-to-site and remote access VPN's. The student must demonstrate the ability to implement a basic firewall that simulates the perimeter of a basic business network. Tools include: ASA5512-X,Cisco Any-Connect VPN client.

ITNET 10150195

Networking Internship An on-the-job experience, with instructor supervision, in Madison area networking companies and in companies that maintain and manage computer networks. The emphasis is on hands-on design, installation, configuration, management, documentation, troubleshooting and maintenance of LANs.

ITNET 10150196

This course provides a broad overview of the tools and techniques commonly used for detecting network sourced attacks. In depth hands-on exercises are used to instruct the student in the proper selection and application of a given tool for the intended task. Also included are basic strategies for documenting and reporting on detected events. The student must demonstrate the ability to plan, design, and build a network IDS that fulfills the security needs of a common business or organization. Open Source tools include: tcpdump, snort, barnyard, etc...

ITNET 10150197

Network Security Internship

Intrusion Detection

An on-the-job experience in Madison area companies that maintain, manage and secure computer networks. The emphasis is on hands-on design, installation, configuration, management, documentation, troubleshooting, maintenance and securing of LANs. By consent of instructor, a special project may be substituted for the internship.

Web Application Development Using ASP.NET

ITPROG 10152103

Students learn to develop Microsoft ASP.NET applications that deliver dynamic content to the web. An emphasis is placed on server-side programming and the role of ASP.NET plays. As part of the class, students create web forms with server controls, display dynamic data from a database using Microsoft ADO.NET, read XML configuration files, and learn to debug ASP.NET web pages.

ITPROG 10152106

C# Programming Teaches the basic concepts of C# programming. Topics include the Visual Studio Integrated Development Environment, program logic constructs, event-driven programming techniques, and development in an object-oriented context.

Advanced C# Programming

ITPROG 10152107 Provides students with a comprehensive understanding of object-oriented system development. It examines and uses the prewritten .NET Framework classes and explores the MSDN help facility. Topics include: collections, exception handling, interfaces and advanced development techniques such as XML and database programming using ADO.NET.

ITPROG 10152109

Python Programming This is an introductory scripting course in the Python programming language. Topics include: basic programming techniques, I/O, data processing, file manipulation, program control logic, functions, modules, and exception handling.

ITPROG 10152111

Java Programming Introduces programming and object-oriented design concepts using the Java programming language. Students learn all the Java programming basics and use a simple text editor as a development environment. Design concepts and programming tools will be integrated with an emphasis on practical business solutions.

ITPROG 10152112

Advanced Java Programming

3 Credits/Units

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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units

3 Credits/Units

Real world smart.

Focuses on the server side of application programming for the web. Topics include: Java servlets, database access with JDBC, JavaServer Pages and JavaBeans. A portion of the class deals with application design issues in a web environment.

ITPROG 10152113

Enterprise Java Programming

Website Development-XHTML

The third class of the Java sequence explores advanced concepts related to development within an enterprise environment. Topics include: information assurance and programmatic security, unit and regression testing, iterative development, parallelism, data access architectures, programmatic XML, and distributed object architectures.

ITPROG 10152119

Introduction to Programming with JavaScript

Teaches the basic concepts of programming using the JavaScript language. Topics include: embedding JavaScript in HTML, eventdriven programming techniques, program control logic, and an introduction to object-oriented programming.

ITPROG 10152120

Teaches the fundamentals and techniques of developing business websites using XHTML-compliant HTML5. Topics include webpage design, tables, image manipulation, image maps, forms, cascading style sheets (CSS) and an introduction to JavaScript in conjunction with forms. All work is done directly with HTML5. Prerequisite: working knowledge of Microsoft Windows (computer literacy, proficiency with a mouse, file management).

ITPROG 10152121

Advanced Website Development--XML

Provides the student with experience in the design and implementation of business Internet websites using advanced command syntax. Topics include: JavaScript, browser object models, dynamic HTML, advanced cascading style sheets (CSS), XML, document type definitions, extensible stylesheet language transformations (XSLT), and XML schemas.

ITPROG 10152124

Introduction to Database Introduces the student to relational database concepts using the MS Access database environment. Students then study concepts that lead to good relational database design including an introduction to normalization. Basic SQL statements are practiced also. Students are required to have a working knowledge of Microsoft Windows operating system (computer literacy, proficiency with a mouse, file management).

ITPROG 10152125

SQL Database Programming

Presents relational database concepts and teaches beginning to intermediate Structured Query Language (SQL) using an Oracle database. Students learn to create and maintain database objects and to store, retrieve, and manipulate data. Demonstrations and hands-on practice reinforce the fundamental concepts.

ITPROG 10152130

Systems Design

Systems Analysis

iOS Development

Practical, introductory-level systems analysis experience. Emphasis is on the physical system elements: data design (record, file, database and entity-relationship diagrams), object-oriented design (use case, class and sequence diagrams), user interface design (screen and report) and system interface design (platforms and factoring). The use of CASE tools is integrated throughout the course.

ITPROG 10152131

In this course, the student learns to analyze the business organization as a system, to structure both the information and processes of a business or organization, and to complete the systems development process through the logical design phase. The course utilizes an object-oriented methodology for the systems development process.

ITPROG 10152132

Web Software Developer Internship

Opportunities for students to learn and practice Web programming and analysis techniques through activities and experiences in an actual information systems department. Students will seek internship opportunities and interview to be selected for internships. The student spends approximately 216 hours over the course of the semester at the internship site. If no internship is available, a special project may be substituted for the internship by consent of the instructor. Activities include designing and testing new web programs. designing and modifying existing web programs, object oriented systems analysis and design, and sharing experiences with other interns.

ITPROG 10152139

The purpose of this course is to introduce students to the development of iOS applications (e.g., iPhone/iPad/iPod/Apple Watch devices). Students will work with modern development concepts using the Swift programming language. Students will be introduced to Object-Orientation, Functional Programming, event-driven programming, and multi-threaded programming. Students will start developing iOS applications using the Xcode IDE and the iOS Simulator.

ITPROG 10152143

Advanced iOS Development

Students will create simple to moderately complex iOS applications using the Swift programming language with Xcode. iOS development topics will include user interface development with Storyboards and code, views and view controllers up through table views, accessing server APIs, and local data storage. Advanced programming concepts covered will include classes, structs. enums, OO class design, Functional Programming basics, database concepts for mobile development, source code management with git, and RESTful APIs with JSON. Deploying

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3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units

ITPROG 10152153

Professional iOS Development

Ruby on Rails Development

Focuses on professional iOS development in a team environment. Students will use modern remote-team tools and practices including source code management with git, team chat tools, and video conferencing. Emphasis will be on how to keep current with the rapidly changing iOS development environment. Students will create and present a talk on an advanced iOS topic, develop a personal app of their choosing, and create an app with their team. This is a course designed to help students transition from student life to the professional world of iOS and software development.

ITPROG 10152157

Introduces the student to dynamic web page development using the Ruby on Rails web development framework. The course will also use the popular MySQL open source database management system. Topics will include an introduction to the Ruby programming language, installing Ruby and Ruby on Rails, an overview of the Rails Framework, ActiveRecord basics, ActionController coding, Action Views, AJAX and the Web 2.0, ActionMailer basics, security, deployment, and scaling. Students will produce a very modern web application that can be adapted to many professional web development needs.

ITPROG 10152166

PHP Web Development with MySQL

This course introduces the student to dynamic web page development using the PHP programming language. Students will learn how PHP works, how to effectively use many of it's powerful features, and how to design and build their own PHP web applications. The popular MySQL open source database management software (DBMS) will also be introduced as a powerful backend for PHP websites.

ITPROG 10152167

Advanced PHP and MySQL Web Development

This course prepares the student to implement professional PHP and MySQL web applications. Students will learn advanced techniques for session management, validation, and authentication. Advanced web application features such as shopping carts. content management using Drupal, web forums and connecting to web services are discussed. Installation and customization of open source PHP web applications are also covered.

ITPROG 10152168

AJAX and JavaScript Web Development

AJAX turns static web pages into interactive applications, allowing you to deploy rich-client applications. Course covers the basics of DHTML, JavaScript, and the XmlHttpRequest call. Students learn how to add JavaScript and AJAX to existing programs, and design new applications to exploit the power of Web 2.0. Students learn the three layers of AJAX framework, and when (and how) to use each. Students learn how to create rich clients, use visual effects, add client-side validation, and handle forms.

ITPROG 10152174

IT Mobile Development Internship

Opportunities for students to learn and practice programming and analysis techniques through activities and experiences in a group project at Madison College, or in an actual information systems department. Objectives commensurate with student's background and experience. Activities include designing and testing new programs, designing and modifying existing programs, systems analysis and design, and sharing experiences with other interns.

ITPROG 10152189

Android Applications Development

This course introduces developing applications for Android devices. All the required software is free, including the Android emulator. It is not necessary to own an Android device, though the applications developed in the course can be deployed to one. Basic familiarity with Java and Eclipse (or willingness to learn them quickly) is assumed. After preliminaries with Google Docs and Google Maps, we take up Android layout and input widgets, both in XML and programmatically; menus and dialogs; gesture detection; graphics and the Android drawing API; database access with SQLite and file IO; location-based services (geo-location); and device dependency issues.

ITPROG 10152195

Advanced Android Development

This is a second course in Android application development, assuming a background in Android development and taking up more advanced topics, including geo location, web services and network programming generally, game programming, HTML 5 strategies, and graphics programming. More complex user interfaces are considered, including multi-activity applications.

ITTECSUP 10154104

A+ Hardware Essentials

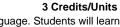
This course presents a comprehensive overview of computer system fundamentals. Through hands-on activities and labs, students gain skills in assembling, configuring and maintaining PCs and operating system software. Participants learn to apply troubleshooting skills to properly diagnose and resolve common hardware and software problems. This course can help prepare students for CompTIA's A+ 220-901 exam. CompTIA's A+ Certification is a widely accepted IT industry standard certification for an entry-level IT PC support professional. Prerequisite: computer literacy, proficiency with a keyboard and mouse, file management, and a basic working knowledge of Microsoft Windows.

ITTECSUP 10154105

A+ Software Essentials

3 Credits/Units

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3 Credits/Units

Effective: 2016-2017

Real world smart.



This course presents intermediate level exposure to computer operating systems and the hardware on which it runs. Students work through hands-on activities and labs to learn and apply troubleshooting skills to properly diagnose, document, and resolve common operating system problems. Students also gain an understanding of appropriate customer support techniques and operational procedures. This course can help prepare the student for CompTIA's A+ 220-902 exam. CompTIA's A+ Certification is a widely accepted IT industry standard certification for an entry-level IT PC support professional.

ITTECSUP 10154118

Infrastructure Automation

IT Service Concepts

This class provides students with the tools they need to manage and automate IT Infrastructures. Students will learn the basics of scripting and tool creation using Windows PowerShell. Along with developing scripts and tools in PowerShell, students will learn about other tools and trends for managing on-premises and cloud infrastructures.

ITTECSUP 10154122

This course is an introduction to the broad range of customer service topics an entry-level user support specialist is expected to know. The course explores the kinds of knowledge, skills and abilities needed for a successful career in the support industry. Topics include successful communication with technology users, end-user training, budgeting and other management priorities, the evolution of IT support, and best practices of the ITIL framework.

ITTECSUP 10154146

Help Desk Tools and Techniques

This course presents the core service desk processes and the technical roles and responsibilities of an IT support professional. The course examines the support software options for logging, tracking, and managing data, escalating calls, and resolving problems through hands-on, real-world projects using current, ITIL and ITSM based Help Desk software.

ITTECSUP 10154147

Students explore new and emerging technologies, and learn how to provide technical support to early adopters of those technologies. Participants diagnose and solve information technology problems by examining the core functions of emerging technologies and by using advanced troubleshooting techniques. Topics include new operating systems and devices, mobile computing support, new technology support techniques and support in a virtualized environment.

Supporting Emerging Technologies

ITTECSUP 10154148

Help Desk Specialist Internship Learn the "value-added" importance of an IT support professional by performing at least 216 hours at area IT Support or Help Desk operations. Under instructor supervision, receive on-the-job Help Desk work experience in area companies. By consent of instructor, a special project or participation in the WolfPack Techies support team may be substituted for the internship.

ITTECSUP 10154171

Gain the skills necessary for supporting and configuring a Windows server including the installation and configuration of Windows Active Directory environment. Configure and deploy network services such as DHCP and DNS. Learn the practical skills required to create and implement Group Policy and configure security policies while preparing for Microsoft MCSA Exam 70-410.

ITTECSUP 10154172

Windows Server 2

Windows Server 1

Gain the skills to support and maintain Windows Active Directory environment. Gain practical experience managing a Windows Active Directory infrastructure with DNS and VPNs. Configure Network Policy Services, Active Directory account policies and advanced Group Policy processes while preparing for Microsoft MCSA exam 70-411.

Trends in Computer Systems Administration

ITTECSUP 10154174

This class introduces topics surrounding current and evolving trends in Information Technology. Students learn about these technologies and how they are used. Through lab scenarios and coursework, students develop the skills necessary to manage these new technologies. Topics may include current trends such as storage management, cloud computing, and virtual desktop infrastructures as well as other technologies as they evolve.

ITTECSUP 10154175

VMware Certified Professional (VCP)

This hands-on training course explores installation, configuration, and management of VMware® vSphere™, which consists of VMware ESXi™ and VMware vCenter™ Server. Students are introduced to virtualization and storage management concepts using VMware server virtualization products.

ITTECSUP 10154184

Learn how to install, configure and administer a desktop operating system for an enterprise office environment. Topics include Windows installation, device configuration, establishing network connectivity, configuring appropriate NTFS and share permissions, and learning the operation of VMWare Workstation. Students are required to have a working knowledge of Microsoft Windows operating system (computer literacy, proficiency with a mouse, file management).

ITTECSUP 10154190

Introduces Linux with a focus on system administration skills. Topics include installation, file and directory management, command execution, input/output redirection and pipes, shell scripts, network services, security, troubleshooting and the X Window system.

ITTECSUP 10154194

Windows Server Pro

Enterprise Client

Linux Server

3 Credits/Units

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3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units

Complete your education in Windows Server Support--and prepare for Microsoft Exam 70-646--while learning the day to day skills required for supporting Windows web, infrastructure and application servers. Learn the essentials of Windows scripting and batch files and other desktop tools required to profile and monitor Windows Servers.

ITTECSUP 10154198

Systems Administration Internship

Provides work experience in an area data center environment offering a variety of experiences managing and operating computer systems. The student spends approximately 15 hours per week at the internship site. By consent of instructor, a special project may be substituted for the internship.

JOURNAL 20801245

Introduction to Journalism This introductory course in journalism provides students with a better understanding of the unique role and responsibility of the journalist working in a democratic society. The course covers the problems and techniques of the news reporter and provides practical experience in news gathering, editing, interviewing and copyrighting through lab work and submission to the student newspaper. Students focus on "Level 1" journalism: spot news reporting, such as crime, politics, and community gatherings such as

sports and music events. **JOURNAL 20801246**

Investigative Journalism

In this course, students will move beyond basic newswriting and reporting skills. Students will focus on the role of investigative reporting in society and the public's right to know. Workshop-style training will be led by the instructor. The learner will develop investigative techniques to examine issues of ethics, fairness and accuracy. Students will identify patterns of systemic problems, not just one isolated incidents affecting individuals, as well as explain complex social problems and reveal any evidence of wrongdoing or abuse of power. These discoveries will be developed into an in-depth feature story that illustrates the importance of organization in the feature writing process for publication.

JOURNAL 20801251

Introduction to Mass Communication

Focuses on the history, evolution, and societal role of our media. This course is divided into three modules. Module 1 ("Storytelling and the Written Word") focuses on the evolution of books, newspapers, and magazines. In addition, students will learn how the written communication is changing because of social media and media convergence. Module 2 ("Sound and Visual Stories") examines the music industry, radio, television, and film. In addition, the video gaming industry is explored. Module 3 ("The Business, Ethics, and Laws of Media") focuses on advertising, public relations, and media conglomeration. In addition, laws and ethical situations affecting our media will be discussed.

JOURNAL 20801252

World Issues Journalism

Documentary Storytelling

This course focuses on radio news reporting skills that are applied to world issues: water, energy, food, war, and free speech. Students will investigate these issues to produce audio podcast news stories. Students will learn how to write radio news scripts before orally presenting them using audio podcast software.

JOURNAL 20801253

Documentary Storytelling is an introduction to the craft of telling non-fiction and news stories through the medium of digital video. This course will teach news reporting and writing skills needed for the documentary format, along with journalism theory, law, and ethics of video journalism. Students will also learn basic digital camcorder operation, storyboard development, video editing, sound editing, and podcasting.

JOURNAL 20801262

Social Media Writing This course examines the rhetorical and publishing strategies used for innovative new media formats, in particular social media platforms. Students will look at the differences between linear and interactive writing, interactive publishing, and the role of the interactive writer. An emphasis is placed on the skills needed for quality storytelling via social media communication. Students will also learn how social media platforms can be used as researching tools (i.e. crowd sourcing), and they will implement social media research campaigns. Throughout the course, the students' writing and research work will be showcased as text, video, and audio stories published on their own Web/blog sites.

JOURNAL 20801269

On-Air Performance This course is an introduction to the skills and theory of on-air radio and television/video announcing. Students will learn the on-air broadcast skills of presenting news information to mass audiences in both audio and television/video formats. Students will also examine newscast theory and the history of radio and television news.

JOURNAL 20801271

Journalism Practicum 1

Journalism Practicum 1 provides real-world journalism skills and experiences for students. Students will spend the semester working on the staff of The Clarion, which is the student media organization, consisting of its newspaper, Web platform, television news program, and outreach services (i.e. classroom presentations; volunteer events; co-sponsorship of lecture series). In Journalism Practicum 1 students will perform service hours contributing news and feature stories and photographs to The Clarion. Students of Journalism Practicum 1 will attend editorial meetings, contribute story ideas and report, write and edit news and feature stories. Students who take Journalism Practicum 1 as a one-credit course must spend at least 36 hours working as a news reporter for The Clarion. Students who take Journalism Practicum 1 as a two-credit course must spend 72 hours working as a Clarion journalist.

3 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

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JOURNAL 20801272

Journalism Practicum 2

Journalism Practicum 2 is a follow-up to Journalism Practicum 1. It provides real-world journalism skills and experiences for students. Students will spend the semester working on the staff of The Clarion. In Journalism Practicum 2 students will perform service hours engaged in issue-based journalism for The Clarion media organization. These students will develop enterprise and investigative news and feature stories for The Clarion; they will also copy, edit and fact check these longer, issue-based news stories. Students of Journalism Practicum 2 will attend editorial meetings, contribute story ideas and then develop these story ideas according to the deadlines.

Students who take Journalism Practicum 2 as a one-credit course must spend at least 36 hours working as a news reporter for The Clarion. Students who take Journalism Practicum 2 as a two-credit course must spend 72 hours working as a Clarion journalist.

JOURNAL 20801273

Journalism Practicum 3

Journalism Practicum 3 is a follow-up to Journalism Practicum 2. Students will spend the semester working on the staff of The Clarion. In Journalism Practicum 3 students perform service hours engaged in news reporting, copyediting and new media activities for The Clarion media organization. In addition to continuing the news reporting and writing that they did for Journalism Practicums 1 and 2, students will develop visual and digital video stories, as well as work with basic elements of newspaper design. Students of Journalism Practicum 3 will attend editorial meetings, contribute news and new media story ideas and then develop these story ideas according to deadlines.

Students who take Journalism Practicum 3 as a one-credit course must spend at least 36 hours working as a news reporter for The Clarion. Students who take Journalism Practicum 3 as a two-credit course must spend 72 hours working as a Clarion journalist.

JOURNAL 20801274

Journalism Practicum 4

Journalism Practicum 4 is a follow-up to Journalism Practicum 3. Students will spend the semester working on the staff of The Clarion. In Journalism Practicum 4, students will perform service hours engaged in high-level editing, managing and directing activities for The Clarion media organization. In addition to continuing the news reporting, news writing, video journalism, and photojournalism that they did for Journalism Practicums 1, 2, and 3, students will assume high-level management roles, as well as work with advanced elements of newspaper design and broadcast direction. Students of Journalism Practicum 4 will lead editorial meetings, direct supporting staff, and manage the development of all Clarion operations.

Students who take Journalism Practicum 4 as a one-credit course must spend at least 36 hours working as a news reporter for The Clarion. Students who take Journalism Practicum 4 as a two-credit course must spend 72 hours working as a Clarion journalist.

LABASST 10513109

Blood Bank

Emphasis is focused on basic blood banking concepts and procedures including forward and reverse blood typing, screening for antibodies, antigen typing, selection of appropriate blood products and compatibility testing. Further work explores protocols to identify antibodies and workup adverse reactions to transfusions and hemolytic disease states.

LABASST 10513110

Basic Lab Skills

Phlebotomy

QA Lab Math

This course explores health career options and fundamental principles and procedures of the clinical laboratory. It incorporates medical terminology, basic laboratory equipment, safety and infection control procedures, and simple laboratory tests.

LABASST 10513111

Thi course provides opportunities for learners to perform routine venipuncture, routine capillary puncture and special collection procedures. Pre-requisite: Completion of or concurrent enrollment in 10-513-110.

LABASST 10513113

This course focuses on performing the mathematical calculations routinely used in laboratory settings. Students explore the concepts of quality control and quality assurance in the laboratory.

LABASST 10513114

Urinalysis This course prepares you to perform a complete urinalysis which includes physical, chemical and microscopic analysis. You will explore renal physiology and correlate urinalysis results with clinical conditions.

LABASST 10513115

Basic Immunology Concepts

This course provides an overview of the immune system including laboratory testing methods for diagnosis of immune system disorders, viral and bacterial infections. Pre-requisites: 10-513-110, 10-513-111, 10-513-114. Co-requisites: 10-513-120, 10-513-121, 10-513-122, 10-513-123, and 20-806-273.

LABASST 10513120

Special Topics In Hematology

This course covers the theory and principles of blood cell production and function, and introduces the student to basic practices and procedures in the hematology laboratory. Pre-requisites: 10-513-110, 10-513-111, 10-513-113, and 10-513-114. Co-requisites: 10-513-115, 10-513-121, 10-513-122, 10-513-123, and 20-806-273.

LABASST 10513121

Coagulation 1 Credits/Units This course introduces theory and principles of coagulation and explores mechanisms involved in coagulation disorders. Emphasis is placed on laboratory techniques used to diagnose disease and monitor treatment.

MADISON AREA | TECHNICAL COLLEGE

1 Credits/Units

4 Credits/Units

2 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

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2 Credits/Units

2 Credits/Units

LABASST 10513130

This course explores mechanisms involved in the development of hematological disorders. Emphasis is placed upon laboratory techniques used to diagnose disorders and monitor treatment. Pre-requisites: 10-513-115, 10-513-120, 10-513-121, 10-513-122, 10-513-123, and 20-806-273.

LABASST 10513131

This course introduces techniques and procedures for routine analysis using photmetric, potentiometric and separation techniques. Topics in this coure include pathophysiology and methodologies for carbohydrates, lipids, proteins, renal function and blood gas analysis. Pre-requisites: 10-513-115, 10-513-120, 10-513-121, 10-513-122, 10-513-123, and 20-806-273. Co-requisites: 10-513-130, 10-513-132, and 10-513-133.

LABASST 10513132

A continuation of Clinical Chemistry 1, this course includes techniques and procedures for analysis using sophisticated laboratory instrumentation. Topics include pathophysiology and methodologies for hepatic, bone, cardiac markers, tumor markers, endocrine function, fetal function, miscellaneous body fluids, and toxicology.

LABASST 10513133

Clinical Microbiology

Advanced Microbiology

Pre-Clinical Experience

Clinical Experience 2

Clinical Portfolio

Clinical Chemistry 2

Advanced Hematology

Clinical Chemistry 1

This course presents the clinical importance of infectious diseases with emphasis upon the appropriate collection, handling and identification of clinically relevant bacteria. Disease states, modes of transmission and methods of prevention and control, including antibiotic susceptibility testing, will also be discussed. Prep-requisites: 10-513-115, 10-513-120, 10-513-121, 10-513-122, 10-513-123, and 20-806-273. Co-requisites: 10-513-130, 10-513-131, and 10-153-132.

LABASST 10513140

This course provides an overview of acid fast organisms, fungi, parasites, and anaerobic bacteria. The organisms, their pathophysiology, epidemiology, the diseases and conditions that they cause, laboratory methods of handling, culturing and identification will be discussed.

LABASST 10513141

Provides opportunities to practice the principles and procedures of laboratory medicine in a clinical laboratory setting. Learn to operate state of the art instruments and report results on Laboratory Information Systems. Clinical content is reviewed and students run a mock-clinical laboratory from specimen acquisition to result reporting. Resume writing and interviewing techniques are also discussed. Prerequisites: satisfactory completion of all Clinical Laboratory Technician program courses and concurrent enrollment in 10-513-141 and

10-513-143.

LABASST 10513151

Clinical Experience 1 - Clinical Lab Tech Program as of 2009-3 Credits/Units 2010

In this clinical you will practice the principles and procedures of laboratory medicine as an entry level Clinical Laboratory Technician in a clinical laboratory setting. You will learn to operate state of the art instruments and report results on Laboratory Information Systems.

LABASST 10513152

Provides continuing practice for the principles and the procedures of laboratory medicine as an entry level Clinical Laboratory Technician in a clinical laboratory setting. You will learn to operate state of the art instruments and report results on Laboratory Information Systems.

LABASST 10513153

Students prepare a portfolio of professional experiences, assessments and evaluations, clinical reports, class project summaries, a log of community service or professional activities performed while in the CLT program and resume for CLT employment. This course is graded pass/fail.

LABASST 10513170

The Molecular Diagnostics course will give students background knowledge in DNA and RNA structure and functioning including nuclear packaging, transcription, translation and modifications. We will also cover basic genetic inheritance. Specific methods we will perform or discuss will include nucleic acid isolation and detection, target amplification and sequencing of target genes. We will also address the use of molecular methods to identify microorganisms, classify neoplasms and characterize MCH loci.

Introduction to Molecular Diagnostics

LANG INT 31538303

Cultural Competency and the Medical Setting

An orientation to some of the factors that influence people to speak, act, negotiate and make decisions. The objective is to modify personal assumptions and habits that impede success in the workplace, at whatever level of employment, whether domestic or international. Students will learn how styles of thinking, value systems and political/social realities affect relationships. Special consideration will be given to international communication, negotiations, marketing and host international visitors. Class is taught in English.

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2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

4 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

Real world smart.

Madison Area Technical College

LANG INT 31538304

Introduction to Interpreting in Spanish Specific theories and practices in interpreting oral communication from English to Spanish and Spanish to English. Includes theories of interpretation, techniques of interpretation, interpretation strategies, interpretation procedures, and modes of interpretation. Class is taught in English and Spanish. Prerequisite: 31-538-301.

LANG INT 31538305

Introduction to Basic Translation Skills in Spanish

Principles and procedures for the translation of written materials. Includes an introduction to translation, translation preparation, translation procedures, basics of grammar in the target languages English and Spanish. Analysis of the Spanish language from the translator's point of view. Includes the structure of Spanish, cultural and stylistic components, paragraph and document development, mechanics and punctuation for editing, and writing resources. Class is taught in English and Spanish. Prerequisite: 31-538-302.

LDRSHP 20810267

Leadership As An Art This course has as its central focus the development of leadership and group dynamics theory and assists the student in developing a personal philosophy of leadership, an awareness of moral and ethical responsibilities of leadership and an awareness of one's own ability and style of leadership. It provides the opportunity to develop essential leadership skills through study and observation of the application of these skills. The course encourages participants to develop their leadership behavior.

LITTRANS 20802250

3 Credits/Units Each section of Literature in Translation has a subtitle that represents the course content (e.g., Latin American Literature or Modern Francophone Literature). Reading selections and course activities introduce students to important literary works associated with the region or linguistic tradition named in the section's subtitle. Course materials include translated versions of texts originally written in a language other than English. No knowledge of the original language is required for enrollment in the course.

MACHT 10420126

Manufacturing Materials Instructional units include safety, oxy-acetylene welding, brazing and cutting, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, flux cored arc welding, plasma arc cutting and conventional machining.

MACHT 32420304

Course studies precision inspection methods while utilizing optical and electronic precision measuring instruments such as the profilometer, optical comparator, microscope, laser alignment machines, the Coordinate Measuring Machine and state-of-the-art computerized vision system.

MACHT 32420322 Introduces the basic concepts and skills using engine lathes, power saws, Drill presses and bench applications. Emphasizes safety and proper operation of tools and machines, speeds, feeds, cutting tools, tool geometry, tool grinding and work-holding devices. Stresses dimensional accuracy, finish and quality as well as team-building and work ethics.

MACHT 32420323

Expands on basic concepts and skills using engine lathes, power saws, drill presses, bench applications, CNC setup and operation. Emphasizes safety and proper operation of tools and machines, speeds feeds, cutting tools, tool geometry, tool grinding and workholding devices. Stresses dimensional accuracy, finish and quality with team-building and work ethics.

MACHT 32420324

Expands the concepts and skills using engine lathes, power saws, drill presses, bench applications, and advanced CNC setup and operation. Emphasizes safety and proper operation of tools and machines, speeds feeds, cutting tools, tool geometry, tool grinding and work-holding devices. Stresses dimensional accuracy, finish and quality with team-building and work ethics.

MACHT 32420325

Expands on basic concepts and skills using engine lathes, power saws, drill presses, bench applications, CNC setup and operation. Emphasizes safety and proper operation of tools and machines, speeds feeds, cutting tools, tool geometry, tool grinding and workholding devices. Stresses dimensional accuracy, finish and guality with team-building and work ethics.

MACHT 32420326

Skills and knowledge necessary for advanced setups and procedures on milling machines, grinders, and lathes. Introduces both tool and cutter grinding and the selection and use of carbide tooling. Special emphasis is given to Electrical Discharge Machine and electrode development. CNC machining applications to complete course projects is enhanced. Safety, precision measurement and craftsmanship are stressed.

MACHT 32420327

MADISON AREA | TECHNICAL COLLEGE

Machine Tool 6

Provides the student with the skills and knowledge necessary for advanced setups and procedures on milling machines, grinders, and lathes. Students are also introduced both tool and cutter grinding and the selection and use of carbide tooling. Special emphasis is given to Electrical Discharge Machine and electrode development. CNC machining applications to complete course projects is also enhanced. Building a stamp die. Safety, precision measurement and craftsmanship are stressed.

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Machine Tool 5

Machine Tool 3

Machine Tool 4

Intermediate Metrology Applications

Machine Tool 1

Machine Tool 2

4 Credits/Units

4 Credits/Units

5 Credits/Units

4 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

4 Credits/Units

4 Credits/Units

2 Credits/Units

Effective: 2016-2017

2 Credits/Units

Literature in Translation

MACHT 32420328 Machine Tool 7

Set-up and operate a CNC EDM machine, CNC machining center, and select and use superabrasives for grinding and machining. Advanced machining setups, procedures, and operations will be covered to enable students to accomplish the machining projects. Safety, precision measurement, and craftsmanship are stressed.

MACHT 32420329

Set-up and operate a CNC EDM machining center, and select and use superabrasives for grinding and machining. Includes advances machining setups, procedures, and operations to accomplish the machining of a small MUD plastic injection mold or special machining project. Safety, precision measurement, and craftsmanship are stressed.

Machine Tool 8

Metal Processes 1

Metals Processes 2

MACHT 32420330

This basic metalworking course is designed to provide the student with instruction in metalworking processes. Instructional units include safety, layout and measuring, machining, oxy-acetylene welding, brazing and cutting, arc welding and properties of metals.

MACHT 32420331

This study of metals provides instruction in sheetmetal work, soldering and brazing, forging and heat treatment, grinding, tool sharpening, metal casting, MIG and TIG welding, metal fabrication and the repair of metal objects.

MACHT 32420336 Manufacturing w/Solid Modeling 3D 2 Credits/Units This course builds on the concepts learned in Manufacturing w Solid Modeling--2D. Learners will utilize Solid Modeling software and CAM software to create true 3D models with surfacing concepts. Students will gain competency in file management by saving, converting, and working with different file types. Learners will create geometry in each application and convert files between CAD and CAM. Students will apply various tool paths theories to the designs they have created. Such theories include Surfacing, High Speed Machining, Hard Milling/Turning, 2 and 4 Axis Wire, Live lathe tooling and 4 Axis milling

MACHT 32420337

This course offers instruction on individual computer workstations in a computer lab. This computer-aided drafting (CAD) instruction uses Solid Modeling software that is capable of creating 3D models and manufacturing drawings. In this course you will spend half of the time creating 3D models using 2 and 2.5D features while exploring the concepts of working in 3D space. Once the solid models are created students will import the solid models into CAM (Computer-aided manufacturing) software and utilize machining concepts to produce manufactured part using 2.5D programming methods such as pocketing, contouring & drilling for milling machines as well as turning, facing, grooving and threading for turning centers.

MACHT 32420346

Intro to CNC - G-code Programming

Hands-on and lecture course exposing student to Computer Numerical Control (CNC). Emphasizes CNC vertical milling machines and CNC turning centers. Covers history, basic CNC understanding and beginning programming including G-codes, M-codes. Students will utilize simulation software that will verify manually written code.

MACHT 32420348

This introductory Applications class familiarizes students with the basic setup procedures of CNC milling machines and CNC turning centers. They will set up rough stock and execute existing programs to produce finished parts. Once students learn these concepts they utilize the conversational programming software on the various CNC machines to program and produce parts.

MACHT 32420349

This course description is unavailable at this time. Please contact the center offering the course for more information.

MACHT 32420351

This course introduces the principles of basic dimensional measurement, layout techniques for machines, use of direct and indirect measuring tools as well as the use of length standards relative to calibration of measuring instruments and the basic operation of the Coordinate Measuring Machine.

MACHT 32420370

Manufacturing w/Solid Modeling-Advanced

This advanced course requires students to draw complex solid models utilizing CAD software. These Models will then be imported into CAM software to use advanced programming methods to produce high quality parts. Mill Programming will include 2D, 2.5D, 3D, 4-Axis and an introduction to 5 Axis and 3+2 techniques. Lathe programming will include advanced turning and live tooling.

MACHT 32420388

Introduces tool design and gauging. Emphasizes jigs, fixture design, clamping, locating devices and tooling and production methods. Presents preset and qualified tooling for NC/CNC as they relate to conventional practice.

MACHT 32420389

MADISON AREA | TECHNICAL COLLEGE

Applied CNC - Intermediate Operations

This applications class builds on CNC concepts learned in previous classes. Emphasis is on CNC Turning Center, CNC Milling machine, and CNC Wire set up and operation. Students will produce parts that they have modeled and programmed in Manufacturing w/Solid Modeling 1 and 2 as well as instructor provided programs.

1 Credits/Units

2 Credits/Units

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Tool and Fixture Design

Basic Metrology (Part A) 1 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

5 Credits/Units

4 Credits/Units

Effective: 2016-2017

2 Credits/Units

2 Credits/Units

2 Credits/Units

Manufacturing w/Solid Modeling-2D

Applied CNC-Conversational and Setup

Elements of Basic Metrology

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MACHT 32420393 Job Orientation - Machine Tooling Technics Program 1 Credits/Units Covers specific occupational information including personal data sheets, job interviews, resumes and recommendations, Guest speakers lecture on employment, management and industry trends. MACHT 32420394 **Tool Making Theory 1** 2 Credits/Units Lecture course supporting Machine Tool 5 & 6 lab activities. Major emphasis on the nomenclature, theory, construction features, design, and the technology of stamping and forming dies. Student also will spend time designing and planning a special die, mold or advanced CNC project. MACHT 32420395 **Tool Making Theory 2** 2 Credits/Units Lecture course supporting Machine Tool 7 & 8 lab activities. Major emphasis on nomenclature, theory, construction features, design and the technology of mold dies. The seven molding processes will be discussed. Students also will spend time designing and planning a special mold, tool, or CNC project. Machinist 1 2 Credits/Units MACHT 50420512 This course description is unavailable at this time. Please contact the center offering the course for more information. MACHT 50420513 Machinist 2 2 Credits/Units MACHT 50420514 Machinist 3 2 Credits/Units MACHT 50420515 Machinist 4 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information. MACHT 50420516 2 Credits/Units Machinist 5 2 Credits/Units Machinist 6 This course description is unavailable at this time. Please contact the center offering the course for more information. 2 Credits/Units **Medical Asst Admin Procedures** Introduces medical assistant students to office management and business, business administration, and the electronic medical record (EMR) in the medical office. Students learn to schedule appointments, perform filing, recordkeeping, inventory of supplies, telephone and reception duties, as well as effective communication with patients and other medical office staff. Prerequisites or Human Body in Health & Disease 3 Credits/Units Focuses on diseases that are frequently first diagnosed and treated in the medical office setting. Students learn to recognize the causes, signs, and symptoms of diseases of the major body systems as well as the diagnostic procedures, usual treatment, prognosis and prevention of common diseases. Prerequisite or Corequisite: Medical Terminology, 10-501-101. Medical Asst Lab Procedures 1 2 Credits/Units Medical Asst Clin Procedures 1 4 Credits/Units Introduces medical assistant students to the clinical procedures performed in the medical office setting. Students perform basic 2 Credits/Units MASST 31509305 Med Asst Lab Procedures 2

Introduces metallurgy, emphasizing applications, selection, identification methods and alloy influences. Studies metal properties

using testing, micro-structure interpretation and heat-treatment processes. Covers tool steels, weld heat effects, failure analysis and machinability variations in cast iron, alloy steels and non-ferrous materials in detail.

Applied CNC - Advanced Operations

Our most advanced CNC applications course devoted to machining complex tool paths, including mold cavities and graphite electrodes. Stresses hands-on instruction and operation of CNC turning centers, vertical milling machines, machining centers.

MACHT 32420390 Fundamentals of Metallurgy 2 Credits/Units

Madison Area Technical College

MASST 31509301 Corequisites: Computer classes and admittance to the Medical Assistant program. MASST 31509302 MASST 31509303 MASST 31509304

examining room skills including screening, vital signs, patient history, minor surgery and patient preparation for routine and speciality exams in the ambulatory setting. Prerequisite: All other first semester courses; corequisites: Medical Assistant Lab Procedures 1, 31-509-303; admittance to the Medical Assistant Program.

Prepares students to perform laboratory procedures commonly performed by medical assistants in the ambulatory care setting under the supervision of a physician. Students perform phletomony, immunology, hematology and chemistry laboratory procedures. Prerequisite: All first semester courses. Corequisite: Medical Assistant Clinical Procedures 2, 31-509-306 and Medical Assistant Practicum, 31-509-310.



Effective: 2016-2017

1 Credits/Units

This course description is unavailable at this time. Please contact the center offering the course for more information.

MACHT 50420517

MACHT 32420391

Topics in College Technical Mathematics 2 include: vectors; trigonometric functions and their graphs; identities; exponential and logarithmic functions and equations; radical equations; equations with rational exponents; equations of a circle; velocity; sine and cosine graphs; complex numbers in polar and rectangular form; trigonometric equations; conic sections; and analysis of statistical data. Emphasis will be on the application of skills to technical problems.

MATH 10804123

and/or Survey of Physics.

MATH 10804134 All college students, regardless of their college major, need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. A collaborative, activity-based approach is used in this course to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This course is not designed for Science, Engineering, or Math students and/or others who require calculus. This course may be used as the prerequisite for Quantitative Reasoning, Principles of Geometry, General Chemistry,

MATH 10804144

Math of Finance

This course takes an algebraic approach to solving financial problems. Topics include personal finance and retirement, mathematics of retailing, mathematics of banking and lending, and statistical applications. Major emphasis is placed on solving problems involving the time value of money by using a financial calculator. The material in this course develops a sound base for subsequent courses by using an analytical approach to problem solving.

MATH 20804200

Principles Of Geometry

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Madison Area Technical College

MASST 31509306

Med Asst Clin Procedures 2

Prepares students to perform EKG, spirometry, and administer medications including topical, oral, and injectable. Must have completed all first semester courses.

MASST 31509307

Medical Office Insurance & Finance

Introduces medical assistant studies to health insurance and finance in the medical office. Students perform bookkeeping procedures, apply managed care guidelines and complete insurance claim forms. Students used medical coding and managed care terminology to perform insurance-related duties. Prerequisites: Medical Terminology, 10-501-101; Human Body in Health & Disease; 31-509-302; and computer courses.

MASST 31509309

Medical Law, Ethics and Professionalism

2 Credits/Units Prepares students to display professionalism and perform within ethical and legal boundaries in the health care setting. Students maintain confidentiality, examine legal aspects of the medical record, examine legal and bioethical issues, and demonstrate awareness of diversity. Prerequisites or Corequisites: 10-501-101 and 31-509-302.

MASST 31509310

Medical Assistant Practicum

College Mathematics

Requires medical assistant students to integrate and apply knowledge and skills from all previous medical assistant courses in actual ambulatory health care settings. Learners perform medical assistant administrative, clinical, and laboratory duties under the supervision of trained mentors to effectively transition to the role of a medical assistant. This is a supervised, unpaid, clinical experience. Prerequisites: Medical Assistant Lab Procedures 1, 31-509-303; Medical Assistant Clinical Procedures 1, 31-509-304; corequisites: Medical Assistant Lab Procedures 2, 31-509-305; Medical Assistant Clinical Procedures 2, 31-509-306.

This course is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. Topics include performing arithmetic operations and simplifying algebraic expressions, solving linear equations and inequalities in one variable, solving proportions and incorporating percent applications, manipulating formulas, solving and graphing systems of linear equations and inequalities in two variables, finding areas and volumes of geometric figures, applying similar and congruent triangles, converting measurements within and between U.S. and metric systems, applying Pythagorean Theorem, solving right and oblique triangles, calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

MATH 10804107

Emphasis will be on the application of skills to technical problems.

MATH 10804114

MATH 10804116

Math with Business Applications

College Technical Math 1B

College Technical Math 2

This course integrates algebraic concepts, proportions, percents, simple interest, compound interest, annuities, and basic statistics with business/consumer scenarios. It also applies math concepts to the purchasing/buying and selling processes.

MATH 10804133

Mathematical Reasoning

3 Credits/Units

3 Credits/Units

2 Credits/Units Topics include: computational geometry; right and oblique triangle trigonometry; and trigonometric functions on the unit circle.

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

Real world smart.



Math & Logic

This is an introductory college level course that provides a foundation in geometry necessary for the study of analytic geometry, trigonometry, or calculus. The class covers the facts of geometry, cultivates geometric intuition, and fosters the practice of deductive reasoning.

MATH 20804201

Intermediate Algebra

Intermediate Algebra studies the construction and resulting properties of the real number system. Students simplify and factor algebraic expressions using fundamental laws and order of operations, solve first and second degree equations and inequalities in one variable, solve exponential and logarithmic equations, graph first degree and second degree equations and inequalities in two variables, solve 2x2 and 3x3 systems of equations, simplify and solve equations involving rational expressions, and simplify and solve equations involving fractional exponents and radicals. Students are introduced to linear, quadratic, square root, absolute value, exponential, and logarithmic functions. The basic definitions of functions, relations, one-to-one functions, and inverses are discussed along with the algebra and composition of functions.

MATH 20804202

Intermediate Algebra I

Understand the structure of the real numbers (their construction, operations and properties); solve first degree (linear) equations and inequalities in one variable; graph first degree equations and inequalities in two variables; be introduced to the concept of the function and the use of functional notation; solve systems of equations in a two-dimensional Cartesian plane; perform algebraic operations on polynomials; factor algebraic expressions; solve polynomial equations by factoring and solve applications problems that relate to all of the above. Transferability: by itself this course does not transfer; however, upon successful completion of this course and 20-804-203, Intermediate Algebra 2, four credit hours of Intermediate Algebra are available for transfer.

MATH 20804203

Intermediate Algebra 2

This course is a continuation of Intermediate Algebra 1, 20-804-202. Students expand their understanding of the structure of the real numbers (their construction, operations and properties); perform algebraic operations on rational and radical expressions; solve rational and radical equations; solve inequalities; solve absolute value equalities and inequalities; solve systems of three equations in three variables using the methods of substitution, addition (elimination), matrices and determinants; study complex numbers (their construction, operations and properties); solve second degree equations and inequalities in one variable; graph quadratic equations; solve exponential and logarithmic equations: understand and use functional notation and the arithmetic of functions: and solve application problems relative to the above topics. Transferability: upon successful completion of this course and 20-804-202, Intermediate Algebra 1, four credit hours of Intermediate Algebra are available for transfer.

MATH 20804208

Computer Science

This course uses the object-oriented programming language Java in a project-based learning format where students will be given increasingly challenging problems. Projects will be brought through the five stages of development: program design, definition and design of library classes, coding, testing, and documenting. Project elements begin with input, output, storage, and operations, and continue through control structures (loops, branching, and methods), data structures (arrays and classes), and techniques for searching and sorting. Students will implement standard Java grammar elements including inheritance and interfaces and will use the compiler and debugger to debug programs. Students will practice analytical skills through elimination of run-time and logical errors and will exercise writing skills in documenting code to a prescribed industry standard. The course requires eight to ten hours per week outside of class.

MATH 20804210

Math for Elementary Teachers

Quantitative Reasoning

This course will challenge students to think mathematically rather than mastering any particular mathematical facts. The focus is more on how you learn rather than on what you learn. This course is an introduction to problem solving and mathematical thinking. The focus of this course is on the process of mathematics rather than specific techniques or content. Students will engage in mathematical problem solving in a variety of contexts and learn a number of ways of approaching new problems which are broadly applicable.

MATH 20804211

This course is intended to develop analytic reasoning and the ability to solve quantitative problems. Topics to be covered may include: construction and interpretation of graphs; descriptive statistics; geometry and spatial visualizations; math of finance; functions and modeling; probability; and logic. Appropriate use of units and dimensions, estimates, mathematical notation and available technology will be emphasized throughout the course. Note: This course satisfies Part A of the Quantitative Reasoning requirement for the UW system and is intended for students who do not plan to take any further mathematics.

MATH 20804212

College Algebra College Algebra includes fundamental topics covered in Intermediate Algebra with a more careful look at the mathematical details and a greater emphasis on the concept of function. It covers quadratic, polynomial, rational, exponential and logarithmic functions, equations and inequalities; the use of matrices and determinants in solving linear systems of equations, solving non-linear systems; sequences and series.

MATH 20804213

Trigonometry

Effective: 2016-2017

4 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Trigonometry includes study of the six trigonometric functions and their inverse functions; solve right and oblique triangles; know and apply basic identities and simplify trigonometric expressions using identities; solve trigonometric equations; graphing trigonometric functions; understand and apply De Moivre's theorem and the nth-root theorem; understand and use complex numbers and polar coordinates; solve application problems that rely on trigonometry.

MATH 20804214

Math for Elementary Teachers 2

Finite Math

A second course in mathematics needed for teaching K-8. Emphasis will be on the student communication how and why standard and alternative algorithms work. Content will focus on problem solving strategies and word problems involving geometry, measurement, algebra, statistics, and probability. The courses in this sequence can be taken in any order.

MATH 20804220

Finite Mathematics provides the necessary mathematical preparation for the understanding of various quantitative methods in modern management theory and the social sciences. The topics included are: sets, relations, linear functions, matrix theory, the solutions of linear systems by graphical, algebraic, Gauss-Jordan, and inverse matrix methods, linear programming by graphical and simplex methods, the mathematics of finance, counting and probability, game theory, decision theory, and other related topics.

MATH 20804221

Calculus Methods for Business and Social Sciences I

Calculus Methods for Business and Social Sciences I is an introduction to calculus and related topics designed primarily for prebusiness and social science students. The course covers the essential concepts of differential and integral calculus for one and several variables. The topics to be covered are functions, derivatives and their applications, exponential and logarithm functions, integration and its applications, integration techniques, calculus of several variables, and differential equations.

MATH 20804223

Calculus Methods for Business and Social Sciences II

Calculus Methods for Business and Social Sciences II is a sequel to Calculus Methods for Business and Social Sciences I. 20-804-221, and is designed primarily for pre-business and social sciences students who need to develop more mathematical techniques than are covered in 20-804-221. The course will include a review of the techniques of single-variable calculus and business applications; expansion of the topics from multivariable calculus; Taylor approximations, polynomials, and series; first-order differential equations and two dimensional systems of differential equations; and difference equations with models from and applications in business and the social sciences.

MATH 20804228

Calculus w Algebra & Trigonometry 1

Designed for students of mathematics, science, and engineering who need some extra knowledge in precalculus and need a first semester calculus course. The course includes a review of the algebraic topics of absolute values, polynomials, factoring, quadratic equations, exponents and radicals, and simplification of algebraic expressions. It includes a review of the trigonometric topics of radian measure, trigonometric functions and their graphs, and trigonometric identities. The calculus topics covered include an introduction to the basic properties of limits, rate of change of functions, continuity, derivatives of algebraic and trigonometric functions, their products quotients and compositions, curve sketching, determining maxima and minima, and related rate problems.

MATH 20804229

Math Analysis

Mathematical Analysis is an integrated treatment of topics from college algebra and trigonometry lays a sound foundation for higher courses in mathematics. This course includes linear and quadratic functions, other polynomial functions, rational functions, radical functions, exponential and logarithmic functions, the trigonometric functions, and some analytic geometry in the plane.

MATH 20804230

Calculus w Algebra & Trigonometry II

This course continues the work begun in Calculus with Algebra and Trigonometry I. It is intended for students who need both extra knowledge of pre-calculus and also a first semester calculus course. The topics covered include exponential and logarithmic functions and their derivatives, inverse trigonometric functions and their derivatives, applications of derivatives, conic sections, and integration and its applications. This course, when preceded by its companion, Calculus with Algebra and Trigonometry I, is equivalent to taking both 804-229, Math Analysis and 804231, Calculus and Analytic Geometry I.

MATH 20804231

Calculus and Analytic Geometry 1 Calculus 1 is designed for students of mathematics, science, and engineering. This is an introduction to the basic properties of limits, rate of change of functions, continuity, derivatives of algebraic and elementary transcendental functions, their products quotients and compositions, curve sketching, finding maxima and minima, and indefinite and definite integration with applications.

MATH 20804232

Calculus and Analytic Geometry 2

Calculus and Analytic Geometry 2 is designed for students of mathematics, science, and engineering. Topics covered include the techniques of integration, numerical approximation of definite integrals, applications of integration and an introduction to first order differential equations, analysis of infinite sequences and series, parametric equations and derivatives of parametric curves, polar coordinates in the plane and integrals using polar coordinates, the analytic geometry of the conic sections, an introduction to vectors in two and three dimensions, scalar and vector cross products, graphs of quadratic surfaces.

MATH 20804233

Calculus 3

5 Credits/Units



3 Credits/Units

3 Credits/Units

5 Credits/Units

3 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

Calculus 3 is designed for students of mathematics, science, and engineering. Topics covered include differentiation of vectors, space curves and curvature, functions of more than one variable, level curves and level surfaces, limits and continuity, partial derivatives, total differential, tangent planes, the gradient operator, the directional derivative, multivariable forms of the chain rule, locating maxima, minima, and saddle points, the method of Lagrange multipliers, multiple integrals in rectangular, polar, cylindrical and spherical coordinates, transformations of multiple integrals and the Jacobian, surface area, applications of multiple integrals to geometry and mechanics, line integrals in two and three dimensions, vector fields, circulation and flux in two dimensions, Green's Theorem, the curl and divergence operators, surfaces and surface area defined parametrically, Gauss' and Stokes' Theorems, applications of vector calculus to geometry, mechanical work, fluid mechanics and electromagnetic fields, an introduction to the theory and solution of first and second order ordinary differential equations.

MATH 20804240

In Basic Statistics appropriate statistical techniques are studied for the systematic collection, presentation, analysis and interpretation of experimental results, including surveys and quality control. The focus is on understanding the techniques of statistical inference (confidence intervals and hypothesis testing) and interpreting results as found in articles and reports. It emphasizes the inherent uncertainty when decisions are made on the basis of sample data. Includes descriptive statistics, basic probability theory, sampling distributions and the Central Limit Theorem; the binomial, normal, Student t, chi-square, and F distributions; and techniques of 1- and 2-sample tests, linear regression, correlation, an introduction to analysis of variance and selected nonparametric procedures.

Basic Statistics

MATH 20804241

Introduction to Engineering Statistics

This is an introductory course with many examples and applications chosen from the engineering disciplines and physical science. The course covers techniques for the collection, presentation, analysis and interpretation of experimental results and develops procedures to deal with the uncertainty present in making inferences and decisions based on sample data. Topics covered include descriptive statistics; probability concepts, random variables and discrete probability distributions; continuous probability and sampling distributions, the Central Limit Theorem; hypothesis tests and confidence intervals for one- and two-sample problems; one-way analysis of variance and basic ideas in experimental design; linear regression, model checking, and inference.

MATH 20804255

Techniques in Ordinary Differential Equations

This course presents techniques for solving and approximating solutions to ordinary differential equations. Topics will include solving first order differential equations, solving second-and higher-order linear differential equations, Laplace and Fourier transforms, systems of first order linear differential equations, numerical methods, and Sturm-Liouville Theory.

MATH 20804256

Elementary Matrix and Linear Algebra

Introduction to Discrete Mathematics

Vocational Math 1

Machine Tool Math 1

This course covers the principles of linear algebra and the theory of matrices with an emphasis in understanding the fundamental concepts and being able to perform calculations. An introduction to formal, logically sound proofs of important theorems is also integrated into the course.

MATH 20804265

Introduces students to discrete mathematical techniques and structures, such as logic, integers, recursion, sets, counting, probability, graphs, trees, and algorithms. The course also develops students' ability to think mathematically and write proofs. Many applications are drawn from computer science, and the course prepares computer science students for future study. The course is also suitable for majors in mathematics, math education, and engineering, as well as anyone interested in the beauty of numbers, patterns, and logical reasoning.

MATH 31804379

Vocational Mathematics 1 is a review of basic mathematics that consists of an introduction to using a scientific calculator, order of operations, fractions, decimals, use of percentage, units of measurement including the metric system, the reading of analog instruments for length measurement, and practical plane geometry.

MATH 31804381

Open only for Machine Tool and Industrial Maintenance students. This course includes the study of machine tool problems involving calculations with fractions, decimals, and percentage. Includes work with the metric system, measurement conversion, geometry, trigonometry of right triangles, and use of a scientific calculator. Formulas with application to the trade are also studied.

MATH 31804382

Machine Tool Math 2 This is a continuation of Machine Tool Math 1. Consists of advanced machine tool problems whose solutions involve right and oblique triangles. Compound angles and numerical control calculations are also studied.

MECTEC 10606100

Engineering Technology Communications

Develops skills in creating engineering sketches through the application of drafting standards and procedures. Principles covered include view selection, orthographic projection, section and auxiliary views, and their utilization in working drawings. The need for engineering sketching is reinforced through a hands-on project requiring measurement, inspection and sketching of orthographic views. In addition, materials, fabrication and assembly methods related to the project will also be explored. Corequisites: 10-606-120 and 10-606-130.

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Effective: 2016-2017

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

3 Credits/Units

1 Credits/Units

Real world smart.

Real world smart.

Madison Area Technical College

MECTEC 10606101 **Engineering Technology Fundamentals** 2 Credits/Units Introduces the student to the knowledge and skills required to function in today's engineering office environment. Engineering office format, procedures, standards, ethics and application level of engineering office related software is introduced. Students explore the engineering design process and participate in various problem solving and conflict resolution techniques. Career paths available to the Mechanical Design graduate will also be explored. Students utilize Net Meeting, video conferencing and Internet shared data.

MECTEC 10606104

Engineering Technology Practices Focuses on the creation of complete sets of engineering detail and assembly drawings including the accompanying engineering documentation, bill of materials and the application of geometric dimensioning and tolerancing standards. Emphasis is placed on product design analysis, the engineering change process, product data management and an introduction to stress analysis and rapid prototyping. Other areas of study include: threaded fasteners, non-threaded fasteners, springs and gears. Prerequisite: 10-606-140.

MECTEC 10606112 Tool Design Technology

The fundamentals of tool design are presented to acquaint the student with the language and methods used in designing jigs and fixtures. Through the research and selection of standard tooling components, working tool design drawings are completed. Also explored are common plastic part design and tooling considerations through actual design problems. Prerequisite: 10-606-104.

MECTEC 10606116

The principles of statics and strength of materials are reviewed and applied to the design of common machine elements. Typical elements studied include: fasteners, shafts, clutches, belts, chains, gears, bearings and springs combined to form machines. Prerequisite: 10-606-170.

MECTEC 10606120

Introduces the basic capabilities of the current version of 2D CAD software as it applies to mechanical design. Emphasis is placed on basic commands and input required for their application in creating two-dimensional mechanical working drawings. Corequisites: 10-606-100 and 10-606-130.

MECTEC 10606125 Plastics for Mechanical Design 3 Credits/Units processing training centers. In addition, students will be provided with relevant information that will enable them to investigate the

Introduces the students to the concepts commands of parametric solid modeling. Students create sketches and add relationships to the sketch segments, extrude the sketches to create models, add features such as fillets, cut extrude, chamfers, holes, draft, shell, lofts and sweeps. Emphasis is placed on the design intent of parametric solid models. In addition, students extract 2D documentation from the 3D models and add details to the drawings. Corequisite: 10-606-100 and 10-606-120, or permission from instructor.

MECTEC 10606131

assemblies and BOM, the use of equations, part configurations and design tables, derived and molded parts, thin features and sheet metal, and the application of photoworks, edrawings, toolbox and 3D meeting. Prerequisite: 10-606-130, or permission from instructor.

MECTEC 10606140

Mechanical drafting dimensioning fundamentals are developed including conventional tolerancing and basic hole and shaft tolerancing methods. The course continues with developing the technical knowledge and skills, which are required for meaningful application and interpretation of geometric dimensioning and tolerancing on mechanical drawings in accordance with the current ASME Y14.5M standard. Prerequisites: 10-606-100, 10-606-120 and 10-606-130.

MECTEC 10606150

An introduction to how engineering and manufacturing utilize a parametric modeled file. Students follow parts through the product development cycle utilizing parametric design, computer aided manufacturing, stress analysis, computer simulation and rapid prototyping.

MECTEC 10606152

PLC, Hydraulics, Pneumatics

An overview of the basics of programmable logic controllers, hydraulics and pneumatics. Basic system components, symbols and schematics are explored. Students gain hands on experience with these systems in a lab setting. Prerequisite: third or fourth semester standing.

MECTEC 10606155

MADISON AREA | TECHNICAL COLLEGE

Statics And Mechanics

3 Credits/Units

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Machine Design

2-D CAD (Computer Aided Drafting) 2 Credits/Units

This course is an introduction to the main plastics processing industries, techniques, and commonly used polymers. Plastic processing principles will be studied and applied through learning activities designed for hands-on classroom manufacturing career possibilities in the plastics industry.

MECTEC 10606130

SolidWorks 1

SolidWorks 2 2 Credits/Units A continuation in the study of parametric design started in 10-606-130, SolidWorks 1. Topics covered in the course include:

Dimensioning/GDT

CAE Applications



2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

Introduces students to the basics of statics. Learners study and analyze forces and loading conditions applied to structures and mechanical devices. Areas of study include resultant and equilibrant of forces, moments, nonconcurrent-coplanar forces (trusses), concurrent-noncoplanar forces and static friction. Related engineering analysis software will be utilized throughout the course. Prerequisite: 10-804-114. Corequisite: 10-804-116.

MECTEC 10606160

Fundamentals of Manufacturing/Engineering Materials

An introduction to the engineering materials and their properties used in industry. Material testing methods and their relevance to design applications are studied through various lab activities. In addition, this course begins the examination of various contemporary manufacturing processes used in industry today.

MECTEC 10606161

Manufacturing Processes

Strength Of Materials

Introduces students to computer aided design and manufacturing concepts through an integrated material removal project. Upon completing the project, students will use various measurement and inspection equipment to verify part conformance to engineering specifications. Prerequisite: 10-606-130 and 10-606-160.

MECTEC 10606163

Engineering Technology Project Management

An introduction to Project Management and the Product Development Process, as they relate to the Mechanical Design Technology field. In this course, students will prepare a team Design Project Plan (DPP) for a future design project to be developed in the 10606186 Engineering Technology Applications course. Prior to the completion of the DPP, students will learn about interpersonal and leadership skills in team environments, as well as elements of the design process and project management including scope, time, cost, and quality of the design project.Note: Engineering Technology Applications, 10606186, should be taken the following semester.

MECTEC 10606164 Quality Systems 2 Credits/Units This course is an introduction to the foundational building blocks necessary for effective understanding and application of quality principles used today. The fundamentals of quality, measurement for quality, and statistics for quality will be explored as they relate to productivity, specifications, and inspections of processes. In addition, process capability and design of experiments is also explored. Prerequisite: Dimensioning/GDT, 10-606-140.

MECTEC 10606170

An analysis of the principles of strength of materials as they apply to various fasteners, welded joints, beams and shafts through practical design and analysis problems. Topics covered include simple stresses, mechanical properties of materials, center of gravity, moment of inertia, shear force and bending diagrams and beam design. Related engineering analysis software is utilized throughout the course. Prerequisite: 10-606-155.

MECTEC 10606186

Engineering Technology Applications

A comprehensive application of the Mechanical Design Technology program, in which student teams will implement the design project plan previously developed in the Manufacturing Analysis course. Implementation of the design project plan will be carried out through a 3-step concurrent engineering design process: Ideation, Refinement, and Implementation. A final presentation of the design project will be presented in a formal design project notebook, as well as through a formal team design project presentation. Pre-requisite: 10-606-163.

MECTEC 10606193

Career Development - Mechanical Design Program

Acquaints students with the process and the development of a plan for securing employment in the mechanical design field. Includes letters of introduction, resume design, personal data sheets, portfolio design and job interview techniques. Presentations by industry professionals in the areas of human resources, management, design and job placement will overview the industry perspective and requirements for employment in the career of mechanical design. Prerequisite: third-semester standing.

MECTEC 20606231

Introductory Engineering Graphics

A freshman course which provides the undergraduate engineering student with a background in descriptive geometry, orthographic projection, engineering drawing techniques, and computer-aided engineering graphics. Topics covered include point-line and plane relationships in projection; multi-view engineering drawings; auxiliary and section views; mechanical fasteners; engineering drawing applications. (Designed for engineering transfer students as the equivalent of ME 231 at UW-Madison.)

MEDREC 10530168

Advanced ICD Coding Advanced ICD Coding - 3 Credits Requires the student to apply and expand the knowledge gained from the basic courses, ICD Diagnosis Coding & ICD Procedure Coding, to more difficult cases. The student will develop critical-thinking skills by using current references to research coding questions and issues. Computerized encoding software is utilized. Prerequisite: Cluster 2 courses; Co-requisite other Cluster 3 courses

MEDREC 10530176

Health Data Management

Introduces the use and structure of health care data elements, data sets, data standards, their relationships to primary and secondary record systems and health information processing. Prerequisites: Cluster 1 & 2 Core program courses; Co-requisites Cluster 3 core program courses.

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Effective: 2016-2017

2 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units



MEDREC 10530181

Introduction to the Health Record

Prepares students to illustrate the flow of health information in various health care delivery systems and within the health information department. It prepares students to retrieve data from health records. Professional ethics, confidentiality and security of health information are emphasized.

MEDREC 10530182

Human Disease for Health Professions

Focuses on the common diseases of each organ/body system as encountered in all types of health settings by health professionals. Emphasis is placed on understanding the etiology (cause), signs and symptoms, diagnostic tests, treatment (including pharmacologic) of each disease.

MEDREC 10530184

Prepares students to assign CPT codes, supported by medical documentation with entry-level proficiency. Students apply CPT instructional notations, conventions, rules and official coding guidelines when assigning CPT codes to case studies and actual medical record documentation. Pre or co-requisites: Intro to the Health Record, 10-530-181 and Human Diseases for the Health Profession, 10-530-182; and co-requisite: ICD-9-CM Coding, 10-530-183.

MEDREC 10530185

Healthcare Reimbursement

Advanced CPT Coding

CPT Coding

Prepares the students to compare and contrast health care payers, illustrate the reimbursement cycle and to comply with regulations related to fraud and abuse. Students assign Diagnosis Related Groups (DRGs), Ambulatory Payment Classifications (APCs), and Resource Utilization Groups (RUGs) with entry-level proficiency using computer encoding and grouping software. Pre or co-requisites: ICD-9-CM, 10-530-183 and CPT Coding, 10-530-184.

MEDREC 10530187

Requires the student to apply and expand the knowledge gained from the basic course, CPT Coding, to more difficult cases. The student will develop critical-thinking skills by using current references to research coding questions and issues. Computerized encoding software is utilized. Pre or co-requisite: Health Care Reimbursement, 10-530-185.

MEDREC 10530188

Certification & Professional Development

This course prepares students for coding certification and includes mock coding certification exams. Students participate in professional development activities and discuss career progression opportunities. Pre-requisites of: 10-530-183 ICD-9-CM & 10-530-184 CPT Coding and Pre/co-requisite: Health Care Reimbursement, 10-530-185.

MEDREC 10530189

Management of Coding Services

This course focuses on common coding management issues including coding quality, coding productivity, and workflow processes. Recruitment, training, and retention of coding staff is included. Pre or co-requisite: Health Care Reimbursement, 10-530-185.

MEDREC 10530197

Prepares students to assign ICD diagnosis codes supported by medical documentation with entry-level proficiency. Students apply instructional notations, conventions, rules, and official coding guidelines when assigned ICD procedures codes to case studies and actual medical record documentation.

MEDREC 10530199

ICD Procedure Coding

Medical Terminology

ICD Diagnosis Coding

Prepares students to assign ICD procedure codes supported by medical documentation with entry-level proficiency. Students apply instructional notations, conventions, rules and official coding guidelines when assigned ICD procedure codes to case studies and actual medical record documentation. Prerequisites: Pre-Program courses; co-requisites: Cluster 1 core program courses.

MEDTERM 10501101

Focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis is on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology, is included. Prequisite: COMPASS scores of Reading 80 & Writing 46-99 or comparable equivalent course courses.

MEDTERM 10501107

Intro to Healthcare Computing Provides an introduction to basic computer functions and applications utilized in contemporary healthcare settings. Students are introduced to the hardware and software components of modern computer systems and the application of computers in the workplace. Emphasizes the use of common software packages, operating systems, file management, word processing, spreadsheets, databases, Internet, and electronic mail.

MEDTERM 10501153

Body Structure & Function - Used in a variety of Degree Programs

A concise introduction to human body structure and function. Normal and abnormal states of the body and basic disease processes affecting the body are emphasized. Common problems encountered in a variety of health care settings are presented.

MEDTERM 31501308

Pharmacology for Allied Health

2 Credits/Units

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Effective: 2016-2017

3 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

Introduces students to medications and basic pharmacology principles. Students apply basic pharmacodynamics to identify common medications and calculate dosages in preparation for medication administration.

MILLWRGT 50423561 Prnt Rdg/Math/Tools & Methods 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information. **MILLWRGT 50423562** Prnt Rdg/Math/Mech Pwr Trans 1 2 Credits/Units **MILLWRGT 50423563** Prnt Rdg/Math/Mech Pwr Trans 2 2 Credits/Units MILLWRGT 50423564 Print Reading/Math/Fluid Power 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

MILLWRGT 50423565 Prnt Rdg/Math/Pipefit/Mech 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

MILLWRGT 50423566 Print Reading/Math/Metalwork

MILLWRGT 50423567 Print Reading/Math/Electrical 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

MILLWRGT 50423568 2 Credits/Units Prnt Read/Math/Mach Repair This course description is unavailable at this time. Please contact the center offering the course for more information.

MKTG 10104102 **Marketing Principles** 3 Credits/Units This foundation course introduces students to the marketing process and how it operates in today's dynamic organizations. The entire marketing mix is examined on a broad scale. Topics include: market segmentation and targeting strategies, market research, consumer behavior, product development, pricing policies, distribution, and an overview of promotion. This basic course provides a comprehensive overview of the exciting world of marketing.

MKTG 10104103 Marketing Research Businesses today need current, accurate information upon which to base their decisions. In this class, students learn not only how to gather marketing information from primary and secondary sources using online and other sources, but also how to apply that information to make better marketing decisions.

MKTG 10104104

Selling Principles Introductory course designed to acquaint the student to the basic principles, concepts, and theories of business and consumer selling. Special emphasis is given to developing the selling process which includes prospecting and qualifying, planning and preapproaching, approaching the customer, the sales presentation/demonstration, handling objections, closing the sale and post-sale service and follow-up. This course will also provide the learner with an opportunity to explore careers, opportunities, and benefits of personal selling

MKTG 10104107

This course is an expanded look at critical issues/trends in the field of marketing. Importance is placed on understanding as well as analyzing the effect of issues/trends on companies and their marketing efforts. Developing skills in interpreting marketing information is another topic of this course. The culmination of the course is the creation of an in-depth marketing plan for a selected product, service, company, or organization.

MKTG 10104111

Innovative Trends in Marketing This course content changes from semester to semester and is based on the hottest and most important marketing trends and topics. Students will hear from industry leaders, explore cutting-edge theories and practices and have an opportunity to explore trends in which they have a particular interest.

MKTG 10104112

Marketing Design Strategies This course provides participants with the opportunity to understand proven theories of marketing communication design principles and practices. Participants are challenged to create powerful marketing messages, by applying effective creativity and innovation techniques, for appropriate audiences using current and emerging technologies.

MKTG 10104113

Leadership Ethics in the Digital Age

The ability to influence people is critical to your personal and professional success. Today's marketers face rapid technological advancements in digital products and social media and its applications, which requires serious ethical considerations. This class will explore leadership principles, practices and contemporary ethical implications to develop the leader within you.

MKTG 10104114

Social Media Principles

Marketing Management

Effective: 2016-2017

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Social Media has transformed Advertising from a long-term Mass medium to a one-to-one communication utilizing almost instant feedback. How businesses are using Social Media as advertising tools as well as how to create and deploy a Social Media Campaign will be the main focus of this class. Additionally, the history and development of Social Medias such as Facebook, YouTube, Twitter and LinkedIn will be explored as well as the many ethical and potential legal concerns that have arisen over these new forms of communication. Finally, the concept of Viral Marketing will be examined and how it allows a Social Message to explode a message to millions of users in a brief time.

MKTG 10104115

Capstone Campaign

Creating a full real-world advertising campaign for a local business is the core of this final capstone class. Students will discover needs, conceptualize, creating and deploying a multi-media advertising campaign using both digital/social media channels, as well as traditional mass media channels. Emphasis on individual work as well as a written group campaign proposal (presented to client) will be part of this final project. Some outside of class time will be needed. Students will also be Hootsuite certified as part of the class.

MKTG 10104125 Principles of Advertising

Students are introduced to the theory and practice of integrated marketing communications. All elements in the promotions mix are summarized but the major emphasis is on advertising. Students examine the characteristics of major media alternatives including radio, television, newspapers, magazines, outdoor, direct response and alternative media. Advertising research, planning and creativity are also explored and practiced.

MKTG 10104126

Public Relations

Sales Management

This course will focus on Public Relations fundamentals necessary for Integrated Marketing Communications. Various forms and styles of PR tools will be covered including Press Releases (traditional and social media press releases) Digital Media and Web PR, Press Kits and Press Rooms, Reputation Management, Crisis Communication, Cause Related Marketing, and Sponsorship.

MKTG 10104160

The role of the Manager in the Sales process is explored in this advanced sales class. Creating a sales program, developing your sales force, motivating sales people, and developing companies to be more selling focused will all be explored through research, case studies, practical applications and projects. Sales skills will be enhanced though the role of a strong Sales Manager.

MKTG 10104162

Mobile Marketing (Social Media)

Mobile internet usage continues to explode and it has been predicted that it will overtake desktop internet usage in the next five years. Successful businesses need to understand the current mobile landscape and how to harness the power of mobile marketing to reach key target markets. This survey course will examine how mobile marketing fits into your overall digital and social media strategy. We will investigate geo-marketing, localized marketing, designing for mobile media, mobile websites, mobile advertising, m-commerce and mobile spending, SMS and mobile apps. Students will develop a creative mobile marketing campaign that integrates with a traditional marketing plan.

MKTG 10104164

Marketing Digital Design

Marketing Internship

Through extensive hands-on experience website builder sites are explored. The conceptual and practical aspects of website design are emphasized. Participants are introduced to principles and practices of Web Usability and Accessibility requirements. Participants are actively engaged in creating a website.

MKTG 10104165

Students are assisted in selecting a supervised work experience related to a specific area of marketing. A team consisting of the employer, the student intern and MATC instructor/advisor work together to plan the objectives of the work experience as well as evaluate the intern's performance. Available to Marketing program students only. Prior to taking this course, students must complete two full semesters of Marketing program coursework and an overall GPA of 2.0 or higher.

MKTG 10104169

Internet Marketing

This introductory course is designed to acquaint students to the basic foundations of internet marketing as part of the marketing communication mix. Emphasis areas include inbound marketing, relevant content development, SEO (Search engine optimization), SEM, Google AdWords, simple dashboard Google Analytics, PPC, web content analysis and webvertising options.

MKTG 10104180

Global Marketing Students explores how marketing strategies and tactics must be managed and adapted for success in different cultural, economic, geographic and political environments around the world. Students will develop marketing and management skills and perspectives in order to work effectively in the global marketplace.

MKTG 10104187

Global Studies Seminar

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

This unique learning and travel experience gives students the opportunity to enhance their understanding of the global marketplace. Upon completion of the course and travel students will be familiar with the history, culture, social and business issues of the host country. Students will examine current trends and business practices relating to (but not limited to) management, marketing, hospitality and global strategies. Participation in this course requires travel to the host country. This experience is designed to help students develop a lifelong global mindset and to enhance abilities to communicate, work on international teams and think creatively.

MKTG 10104188 Marketing Portfolio

E-portfolios are essential for today's job hunting marketplace. This course will help you to organize the marketing projects you have worked on throughout the program into an e-portfolio format. Additionally you will add other collateral materials to your portfolio including a resume that includes e-screening words for marketing, professional reference page and cover letter, and e-tabs within your portfolio. Your project collection on a thumb drive or your student drive will assist you with your portfolio preparation. Must be taken in final semester of Marketing program or by obtaining Consent of Instructor.

MKTG 10104802 Honors - Marketing

Allows a qualified Honors student to pursue a special concentration of study under the guidance of a faculty member. Requires completion of an Honors Project Contract. Credits 1 - 3. May be taken more than once. Pre-requisite: 1) minimum of 12 credits at Madison College, a 3.5 or higher GPA, and a previous or concurrent course with Honors Instructor; or 2) High School GPA of 3.5 or higher, and permission of Honors Instructor.

MTLFAB 31457301

Fabrication 1

Fabrication 2

Fabrication 3

In Fabrication 1 students will be introduced to the fundamentals of metal cutting and forming. Students will create assemblies from industrial drawings conforming to industry standards. Emphasis will be placed on the safety, basic layout techniques, bending calculations, and operation of manual and mechanical cutting/forming equipment.

MTLFAB 31457302

In Fabrication 2 students will translate the competencies established in Fabrication 1 to programmable forming equipment. Students will create assemblies from industrial drawings conforming to industry standards. Emphasis will be placed on safe operation procedures, the selection of tooling, and calculations required to properly operate programmable forming equipment.

MTLFAB 31457303

Fabrication 3 builds upon the competencies established in the prior Fabrication courses. Students will create assemblies from industrial drawings conforming to industry standards. Emphasis will expand upon operational safety, tooling types and selection, multiple types and combinations of bending, as well as assembly techniques.

MTI FAB 31457304

Fabrication 4 The Fabrication Capstone course utilizes all the program competencies learned and combines them into final projects. Students will

choose from established projects and create material lists, operational procedures, fabricate components, assemble, join, and finish. All assembles must be inspected per industry standards. MTLFAB 31457305 **CNC** Operation

The CNC Operation course will develop student's ability to operate Computerized Numerical Control cutting equipment. Students will be trained in safety, program selection, operational procedures, editing and the basic maintenance of the equipment. Students will be introduced to programing methods applicable to each OEM manufacturer.

MTLFAB 31457306

CNC Programming The CNC programing class students will develop ability to generate component programs utilizing computer software. Students will generate shape geometry, create parts, develop nests and cut parts.

MTI FAB 31457307

Jig and Fixture Development Students will develop the concepts of design and building simple to intermediate jigs and assembly fixtures. Students will use computer software and metal fabrication equipment to build jig and fixtures for projects used in the class.

MUSIC 20805205

Class Voice 1 is a fundamental course in singing which includes principles of voice production, correct breathing, tone placement, resonance, articulation and song interpretation. Open to all college students.

MUSIC 20805206

Class Voice 2 is a continuation course in fundamentals of singing which includes principles of voice production, correct breathing, tone placement, resonance, articulation and song interpretation. Open to all college students. No auditions.

MUSIC 20805207

Class Voice 2

Class Voice 1

1 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

Real world smart.

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MADISON AREA | TECHNICAL :01 I FGF

Effective: 2016-2017

World Music

This course is designed to give students a broad overview of various musics from around the world. Over the course of the semester, students will learn how various societies view, perform, use, and disseminate music and gain respect for these musics through deeper understanding of their materials, processes, and values within their respective cultures. Our goal is to develop acute listening skills in order to identify the geographic origin of musical examples and associate appropriate cultural values with them. As a class, students will explore music from Sub-Saharan Africa, Indigenous American cultures, Latin America, South Asia, East Asia, Southeast Asia, and others. In addition, students will choose an additional music-culture to research individually.

MUSIC 20805209

Swing Choir

Orchestra 1

Vocal Jazz Ensemble is a small performing vocal ensemble that includes both pop choral music and music for a vocal jazz ensemble. Some musical selections are choreographed, but formal dance ability is not required. Prerequisite: concurrent enrollment in MATC Chorale and consent of the instructor.

MUSIC 20805211

Students will apply existing knowledge of performance technique on an individual instrument within a full orchestra. This course addresses musical performance skills through weekly rehearsals of orchestral music composed in the 18th through 20th centuries. Two public performances will occur outside the regular rehearsal time each semester. Open to all string players. Open to winds, brass, and percussion by audition.

MUSIC 20805212

Orchestra 2 Students will apply existing knowledge of performance technique on an individual instrument within a full orchestra. This course addresses musical performance skills through weekly rehearsals of orchestral music composed in the 18th, 19th, and 20th centuries. Two public performances will occur outside the regular rehearsal time each semester. Open to all string players. Open to winds, brass, and percussion by audition.

MUSIC 20805216

Concert Band 1 1 Credits/Units Students will apply existing knowledge of performance technique on an individual instrument within a full concert band. Students will develop ensemble

performance skills for woodwind, brass, and percussion instruments. Musical repertoire ranges from original compositions for wind band to transcriptions and arrangements of popular music spanning several centuries. Two to three public performances will take place outside the regular rehearsal time each semester. Open to all winds, brass, and percussion following a seating placement audition with the conductor.

MUSIC 20805217

Students will apply existing knowledge of performance technique on an individual instrument within a full concert band. Students will develop ensemble advanced performance skills for woodwind, brass, and percussion instruments. Advanced-level musical repertoire ranges from original compositions for wind band to transcriptions and arrangements of popular music from the 20th and 21st centuries. Two to three public performances will take place outside the regular rehearsal time each semester. Open to all winds, brass, and percussion following a seating placement audition with the

conductor.

MUSIC 20805219

Jazz Ensemble 1

Concert Band 2

Students will apply existing knowledge of performance technique on an individual instrument within a standard jazz ensemble. Students in this course will rehearse and perform music in a variety of jazz styles from the 20th and 21st centuries while developing ensemble performance and solo improvisational skills. Several performances occur outside the regular rehearsal time by arrangement with the director. Open to jazz instrumentalists with permission of the director.

MUSIC 20805220

Jazz Ensemble 2 Students will apply existing knowledge of performance technique on an individual instrument within a standard jazz ensemble. Students in this course will rehearse and perform music in a variety of jazz styles from the 20th and 21st centuries while developing ensemble performance and solo improvisational skills. Several performances occur outside the regular rehearsal time by arrangement with the director. Open to jazz instrumentalists with permission of the director.

MUSIC 20805221

1 Credits/Units Class Piano 1 Students will be introduced to piano technique and musical notation for piano. Students will then apply these skills to elementarylevel performance of music from a variety of genres and styles. Performance of fully notated music, improvised harmonization of melodies in major keys, and melodic improvisation based on written harmonic progressions will be explored at a beginning level.

MUSIC 20805222

Class Piano 2

1 Credits/Units Students will build on foundations of piano technique and note-reading skills and apply them to intermediate-level performance of music from a variety of genres and styles. Performance of fully notated music, improvised harmonization of melodies in minor keys, and melodic improvisation in both major and minor keys will be explored at an intermediate level.

MUSIC 20805227

Music Appreciation

3 Credits/Units

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Effective: 2016-2017

1 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

Through an examination of select contemporary musical styles and a survey of the development of Western art music, students will learn how to actively listen to music and identify salient traits. Students will explore musical meaning, musical reception, and musical aesthetics as they apply to different cultures and different time periods. Attendance at two live musical performances outside the classroom is required.

MUSIC 20805232 International Arts Intensive-Music 3 Credits/Units Provides a unique immersion in which participants will study the interdisciplinary nature of the arts. Students will travel to an international arts center to explore the connections that exist among the disciplines of music, theater, and visual art. Historical, geographical, and cultural perspectives will be examined to enhance understanding of live performance experiences in both theater and music. Based on site-specific study, students will apply aesthetic values to the description of music and theater styles.

MUSIC 20805260

Music Theory Fundamentals

Music Theory Fundamentals serves as an introduction to Western musical notation and aural skills. Through a systematic study of musical vocabulary, rhythm, melody, and harmony, students will acquire the skills necessary in order to visually recognize, aurally identify, transcribe, analyze and compose music according to standards of Western notation. This course may also serve as preparation for Theory 1 (20-805-261) and Aural Skills 1 (20-805-267). Open to all students.

MUSIC 20805261

Music Theory 1 3 Credits/Units Through a study of melodic and harmonic compositional language, students will analyze and compose music in the style of the common practice period. Students complete a final composition project exhibiting principles of voice leading. Requires literacy in Western musical notation, understanding of keys, and major and minor scales. Students must also register for Aural Skills 1 (20805267).

MUSIC 20805262 Music Theory 2 3 Credits/Units This course further develops the content of Music Theory 1 by expanding diatonic harmonic structures to include seventh chords and non-diatonic harmonies. Students will analyze music featuring tonal modulation. Students will also analyze musical forms employing both micro- and macro-level terminology. Theoretical skills will be applied to practical keyboard exercises. Completion of a final composition project in homophonic texture and in the prevailing style of the common practice period is required.

MUSIC 20805263

This course provides an introductory survey of major jazz performers, styles, and compositions in the 20th and 21st centuries. Students will examine musical developments in the genre of jazz as they relate to major historical events, social movements, and cultural trends in the United States. Students will examine historical recordings to develop listening skills and distinguish specific characteristics among a variety of jazz styles. Attendance at two live performances separate from regular class meetings is required.

MUSIC 20805267

Aural Skills 1 Students will apply music reading and analytical skills learned in co-requisite Music Theory 1 to the performance and transcription of rhythm, melody and harmony. Students will sing simple melodies and rhythms alone and in ensemble, sing harmonies in ensemble,

Aural Skills 2

Jazz History

MUSIC 20805268

Students will apply music reading and analytical skills learned in co-requisite Music Theory 2 to the performance and transcription of rhythm, melody and harmony. Students will sing intermediate tonal melodies and perform multi-part rhythms alone and in ensemble, sing harmonies in ensemble, and notate comparable melodies, rhythms and harmonic progressions through aural recognition.

and notate comparable melodies, rhythms and harmonic progressions through aural recognition. Co-requisite: 20-805-261.

MUSIC 20805270

Madison College Chorale

Madison College Chorale 2

Madison College Chorale is a chorus of mixed voices open to those who enjoy singing-all college students, staff, faculty and general public. It focuses on music of diverse cultures and times. MATC Chorale provides an opportunity to participate in learning and performing choral music.

MUSIC 20805271

Madison College Chorale 2 is a continuation of choral group for mixed voices open to those who enjoy singing—all college students, staff, faculty and general public. It focuses on music of diverse cultures and times. Madison College Chorale 2 provides an opportunity to participate in learning and performing choral music. No auditions.

MUSIC 20805272

Madrigal Choir

Madrigal Choir is a small vocal ensemble that sings and performs choral repertoire from madrigals and other choral literature. Corequisite: enrollment in MATC Chorale.

MUSIC 20805278

Hist Pop/Rock Music

3 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units



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History of Popular & Rock Music explores the history of popular and rock music in the United States from 1954 to the present, focusing on significant music genres, important artists/bands, the role of identity in music, and social history. The course intends to promote creative and critical thinking by emphasizing music literature, form and style analysis, and social and cultural criticism. Through our discourse, we will strive to connect musical and social histories by situating popular works/performances within the complex and volatile landscape of Western cultures throughout the last century to present day.?

MUSIC 20805279

World Drumming Ensemble 1

High-energy ensemble participation focuses on world drumming techniques and styles, ensemble listening skills, and techniques for creative improvisation. Warm-up activities, dexterity exercises, traditional music, and contemporary compositions lead a public performance at the end of the

semester. Previous drumming experience and the ability to read music are not required.

MUSIC 20805280

World Drumming Ensemble 2

The World Drumming Ensemble is a high-energy ensemble that focuses on world drumming techniques and styles, ensemble listening skills, and techniques for creative improvisation. Warm-up activities, dexterity exercises, traditional music, and contemporary compositions lead a public performance at the end of the semester.

MUSIC 20805281

World Drumming Ensemble 3

The World Drumming Ensemble is a high-energy ensemble that focuses on world drumming techniques and styles, ensemble listening skills, and techniques for creative improvisation. Warm-up activities, dexterity exercises, traditional music, and contemporary compositions lead a public performance at the end of the semester.

MUSIC 20805282

World Drumming Ensemble 4 1 Credits/Units World Drumming Ensemble is a high-energy ensemble that focuses on world drumming techniques and styles, ensemble listening skills, and techniques for creative improvisation. Warm-up activities, dexterity exercises, traditional music, and contemporary compositions lead a public performance at the end of the semester.

NRSAD 10543101 Nursing Fundamentals - Associate Degree Nursing Program 2 Credits/Units This course focuses on basic nursing concepts that the beginning nurse will need to provide care to diverse patient populations.

Current and historical issues impacting nursing will be explored within the scope of nursing practice. The nursing process will be introduced as a framework for organizing the care of patients with alterations in cognition, elimination, comfort, grief/loss, mobility, integument, and fluid/electrolyte balance.

NRSAD 10543102 Nursing Skills - Associate Degree Nursing Program 3 Credits/Units This course focuses on development of clinical skills and physical assessment across the lifespan. Content includes mathematic

calculations and conversions related to clinical skills, blood pressure assessment, aseptic technique, wound care, oxygen administration, tracheostomy care, suctioning, management of enteral tubes, basic medication administration, glucose testing, enemas, ostomy care, and catheterization. In addition, the course includes techniques related to obtaining a health history and basic physical assessment skills using a body systems approach.

NRSAD 10543103 Nursing Pharmacology - Associate Degree Nursing Program 2 Credits/Units This course introduces the principles of pharmacology, including drug classifications and their effects on the body. Emphasis is on

the use of the components of the nursing process when administering medications.

NRSAD 10543104

Nsg: Intro Clinical Practice

This introductory clinical course emphasizes basic nursing skills and application of the nursing process in meeting the needs of diverse clients. Emphasis is placed on performing basic nursing skills, the formation of nurse-client relationships, communication, data collection, documentation, and medication administration.

Nursing Health Alterations - Associate Degree Nursing

NRSAD 10543105

Program This course elaborates upon the basic concepts of health and illness as presented in Nursing Fundamentals. It applies theories of nursing in the care of clients through the lifespan, utilizing problem solving and critical thinking. This course will provide an opportunity to study conditions affecting different body systems and apply therapeutic nursing interventions. It will also introduce concepts of leadership, team building and scope of practice.

NRSAD 10543106

Nursing Health Promotion - Associate Degree Nursing Program 3 Credits/Units

This course will cover topics related to health promotion in the context of the family. We will cover nursing care of the developming family, which includes reproductive issues, pregnancy, labor and delivery, post-partum, the newborn, and the child. Recognizing the spectrum of healthy families we will discern patterns associated with adaptive and maladaptive behaviors applying mental health principles. An emphasis is placed on teaching and supporting healthy lifestyle choices. Nutrition, exercise, stress management, empowerment, and risk reduction practices are highlighted. Study of the family will cover dynamics, functions, discipline styles and stages of development.



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Effective: 2016-2017

1 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units



Nursing: Clinical Care Across Lifespan

This clinical experience applies nursing concepts and therapeutic interventions to clients across the lifespan. It also provides an introduction to concepts of teaching and learning. Extending care to include the family is emphasized.

NRSAD 10543108 Nursing: Introduction to Clinical Care Management

This clinical experience applies nursing concepts and therapeutic nursing interventions to groups of clients. It also provides an introduction to leadership, management and team building.

NRSAD 10543109 **Nursing: Complex Health Alterations 1** This class prepares the learner to expand knowledge from previous courses in caring for clients with alterations in musculoskeletal,

cardiovascular, respiratory, endocrine, and hematologic systems as well as clients with fluid/electrolyte and acid-base imbalance. and alterations in comfort.

NRSAD 10543110 Nursing: Mental Health Community Concepts 2 Credits/Units

This class will cover topics related to the delivery of community and mental health care. Specific health needs of individuals, families and groups will be addressed. Attention will be given to diverse and at-risk populations. Mental health concepts will concentrate on adaptive/maladaptive behaviors and specific mental health disorders. Community resources will be examined in relation to specific types of support offered to racial, ethnic, economically diverse individuals and groups.

NRSAD 10543111

NRSAD 10543107

Nursing: Intermediate Clinical Practice

This intermediate level clinical course develops the RN role when working with clients with complex health care needs. A focus of the course is developing skills needed for managing multiple clients and priorities. Using the nursing process, students will gain experience in adapting nursing practice to meet the needs of clients with diverse needs and backgrounds.

NRSAD 10543112

Nursing Advanced Skills

This course focuses on the development of advanced clinical skills. Content includes advanced IV skills, blood product administration, chest tube systems, basic EKG interpretation and nasogastric/feeding tube insertion.

NRSAD 10543113

This course prepares the learner to expand knowledge and skills from previous courses in caring for clients with alterations in the immune, neuro-sensory, musculoskeletal, gastrointestinal, hepatobiliary, renal/urinary and the reproductive systems. The learner will also focus on management of care for clients with high risk perinatal conditions, high risk newborns and the ill child. Synthesis and application of previously learned concepts will be evident in the management of clients with critical/life threatening situations.

Nursing: Complex Health Alteratations 2

NRSAD 10543114

Nursing: Management and Professional Concepts

This advanced clinical course covers nursing management and professional issues related to the role of the RN. Emphasis is placed on preparing for the RN practice.

NRSAD 10543115

This advanced clinical course requires the student to integrate concepts from all previous courses in the management of groups of clients facing complex health alterations. Students will have the opportuinity to further develop critical thinking skills using the nursing process in making clinical decisions. Continuity of care through interdisciplinary collaboration is emphasized.

Nursing: Advanced Clinical Practice

NRSAD 10543116

This clinical experience integrates all knowledge learned in the previous courses in transitioning to the role of the graduate nurse. The course promotes relatively independent clinical decisions, delegation, and working collaboratively with others to achieve client and organizational outcomes.

NRSAD 10543127

Paramedic to AD Theory 1

Nursing Clinical Transition

This course will focus on basic nursing concepts that the beginning nurse will need to provide care to diverse populations. The nursing process will be introduced as a framework for organizing care of patients with alterations in cognition, elimination, comfort, grief/loss, mobility, skin integrity, and related principles of pharmacology.

NRSAD 10543128

This course will cover topics related to health promotion in the context of the family. Nursing care of the developing family topics including reproductive, pregnancy, labor and delivery, postpartum, and the newborn child will be covered. Patterns of adaptive and maladaptive behaviors, family dynamics, and grief and loss will be addressed utilizing mental health principles. An emphasis is placed on teaching and supporting healthy lifestyle changes. Nutrition, exercise/stress management, and risk reduction practices are addressed. Perioperative, malignancy, and chronic illness concepts are reviewed with related pharmacology concepts.

NRSAD 10543129

Paramedic to AD Skills

Effective: 2016-2017

2 Credits/Units

2 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units



2 Credits/Units

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Paramedic to AD Theory 2

This course focuses on development of basic skills, clinical skills, and physical assessment across the lifespan. Content includes basic supportive and hygienic cares, mathematic calculations and conversions related to clinical skills, aseptic technique, wound care, tracheostomy care and suctioning, the management of enteral tubes, medication administration, enemas, ostomy care, and physical assessment skills using a body systems approach.

NRSAD 10543130

This clinical course emphasizes basic nursing skills and application of the nursing process to clients and families across the lifespan. Emphasis is placed on assessment, relationships, communication, data collection, documentation, and medication administration.

Orientation Associate Degree Nursing

Community Cultural Health Care

Paramedic to RN Clinical

NRSAD 10543164

Introduction to the Associate Degree Nursing Program for licensed practical nurses. Prerequisite: Admission to the ADN program and permission of the program director.

NRSAD 10543291

This theory and clinical course promotes an understanding of diverse cultures by looking at cultures and healthcare systems through classroom activity and a supervised field experience within a host country. The field experience host country will expose students to health issues, needs, services and systems within the host country. Students will have opportunities to prepare and present health education, provide health care and share in the history and epidemiology of the identified host country. This course requires students to participate in a "Global Studies Clinical" held when the host country is approved.

NRSAD 30543300

Nursing Assistant 3 Credits/Units Prepares students for employment as nursing assistants. Students learn communication skills, basic nursing and personal care skills, clients' rights and care of clients with dementias. A supervised clinical experience with direct client care is a major component of the course. Upon completion, the student is eligible to take the certification for the Wisconsin Nurse Aide Registry. Enrollment Requirements: Must be 16+ years old, have completed Background Check, Health Screening and Reading Requirements.

NRSAD 31543301

Nursing Fundamentals - Practical Nursing Program

This course focuses on basic nursing concepts that the beginning nurse will need to provide care to diverse patient populations. Current and historical issues impacting nursing will be explored within the scope of nursing practice. The nursing process will be introducted as a framework for organizing the care of patients with alterations in cognition, elimination, comfort, grief/loss, mobility, integument, and flud/electrolyte balance.

NRSAD 31543302

Nursing Skills - Practical Nursing Program

This course focuses on development of clinical skills and physical assessment across the lifespan. Content includes mathematic calculations and vonversions related to clinical skills, blood pressure assessment, aseptic technique, wound care, oxygen administration, tracheostomy care, suctioning, management of enteral tubes, basic medication administration, glucose testing, enemas, ostomy care, and catheterization. In addition the course includes techniques related to obtaining a health history and basic physical assessment skills using a body systems approach.

NRSAD 31543303

Nursing Pharmacology - Practical Nursing Program

This course introduces the principles of pharmacology, including drug classifications and their effects on the body. Emphasis is on the use of the components of the nursing process when administering medications.

NRSAD 31543304

Nursing: Intro to Clinical Practice This introductory clinical course emphasizes basic nursing skills and application of the nursing process in meeting the needs of diverse clients. Emphasis is placed on performing basic nursing skills, the formation of nurse-client relationships, communication, data collection, documentation, and medication administration.

NRSAD 31543305

Nursing Health Alterations - Practical Nursing Program

This course elaborates upon the basic concepts of health and illness as presented in Nursing Fundamentals. It applies theories of nursing in the care of clients through the lifespan, utilizing problems solving and critical thinking. This course will provide an opportunity to study conditions affecting different body systems and apply therapeutic nursing interventions. It will also introduce concepts of leadership, team building, and scope of practice.

NRSAD 31543306

Nursing Health Promotion - Practical Nursing Program This course will cover topics related to health promotion in the context of the family. We will cover nursing care of the developing family, which includes reproductive issues, pregnancy, labor and delivery, post-partum, the newborn, and the child. Recognizing the spectrum of healthy families we will discern patterns associated with adaptive and maladaptive behaviors applying mental health principles. An emphais is placed on teaching and supporting healthy lifestyle choices. Nutrition, exercise, stress management, empowerment, and risk reduction practices are highlighted. Study of the family will cover dynamics, functions, discipline styles, and stages of development.

NRSAD 31543307

Nursing: Clinical Care Across the Lifespan

2 Credits/Units

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2 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units





This Clinical experience applies nursing concepts and therapeutic interventions to clients across the lifespan. It also provides an introduction to concepts of teaching and learning. Extending care to include the family is emphasized.

NRSAD 31543308

Nursing: Intro to Clinical Care Management

This clinical experience applies nursing concepts and therapeutic nursing interventions to groups of clients. It also provides an introduction to leadership, management and team building.

OPTOMET 31516301

Ophthalmic Pre-Testing Covers the history of optometry, relationships between optometry, ophthalmology and opticianry and various paraprofessional careers in vision care. The course involves the study of and practical experience in patient pre-testing such as case history, visual acuity, color vision, pupil evaluation and depth perception as well as the specialized testing procedures such as keratometry and blood pressure.

OPTOMET 31516305

Basic Optical Concepts

Covers the properties of light and the function of a lens in vision correction. Included is a review of basic math needed in vision care and the physiological aspects of vision. This course begins the study of the neutralization and verification of spectacle lens powers, to include spherical, cylindrical and prism lenses.

OPTOMET 31516315

Ocular Anatomy

Familiarizes the optometric technician with the form and function of the human eye. The foundation of the lecture material is the anatomy of the eye, but we will discuss the physiology and function of the eye as much as possible. We will also discuss the actions and uses of diagnostic pharmaceutical agents, as their function is based on interference with normal ocular physiology. This course also covers optometric terminology as well as prescription translation.

OPTOMET 31516325

Covers frame definition, parts and types of frames, measurement of frames and lenses, alignment of frames, inserting and removing lenses, introduction to dispensing of eyewear and frame repairs. This is a hybrid course that meets weekly for 2 hours classroom, 2 hours lab and 1 hour online.

OPTOMET 31516326

Optical Dispensing 2

Contact Lenses

Optical Dispensing 1

This course assists the student in developing a mastery of the alignment and adjustment of eyewear. It also covers the various lens materials, multifocal styles and lens tints.

OPTOMET 31516327

This course prepares the technician to assist the doctor in advanced office techniques in the area of ultrasound, in-office surgical procedures, case history, scribing, instrument maintenance and repair and ophthalmic imaging. Students will also study various systemic diseases and their effect on the eye. The performance of the various skills is emphasized in the laboratory sessions.

Clinical Ophthalmic Procedures

OPTOMET 31516330

Gives the student in-depth exposure to the technical aspects of clinical contact lens practice. Lecture and laboratory experiences emphasize lens verification, patient education and evaluation.

OPTOMET 31516335

Ophthalmic Specialty Testing Provides the student experience and knowledge in areas of special vision care procedures: subjective refraction, visual field testing, slit lamp, Goldmann and non-contact tonometry, basic concepts of orthoptics and the treatment of eye diseases including instillation of eye medications and eye patching. Patient instruction and assistance are emphasized in laboratory sessions. Prerequisites: 31-516-301, 31-516-305 and 31-516-315.

OPTOMET 31516339

Human Relations - Optometric Technician Program

Introduces students to their personal and vocational responsibilities as an optometric technician. The development of communication skills one needs as an optometric technician are introduced. The ethical and legal responsibilities of an optometric technician are defined. Time management techniques will be presented. Basic concepts of stress and how it affects behavior, and stress management are discussed. The course also covers writing a job application letter and resume as well as interview techniques. This is a hybrid course that meets weekly for 1 hour classroom and 1 hour online.

OPTOMET 31516340

Patient Relations/Pract Manage

Provides a study of front office management techniques including telephone and appointment book management, filing, recall systems, bookkeeping and insurance claim processing. This is a hybrid course that meets weekly for 1 hour classroom and 1 hour online.

OPTOMET 31516345

Prepares students for clinical affiliation by having them complete vision screenings on patients from the college. Class discussions are held analyzing the results of the screening as well as the students' performance.

Preclinical

OPTOMET 31516350

Clinical Experience

3 Credits/Units

2 Credits/Units

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Effective: 2016-2017

2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

2 Credits/Units

Real world smart.

Students participate 40 hours per week for six weeks of assigned clinical experience in an optometric or clinic setting. The student is expected to achieve specific educational objectives determined for this experience. Prerequisite: satisfactory completion of all firstsemester courses plus enrollment in second-semester courses.

OTASST 10514171

Provides an overview of history, philosophy, ethics, and scope of occupational therapy practice. Examines legal responsibilities, professional resources, and organization. Students practice basic skills related to therapeutic relationships and determine their own suitability to a career in occupational therapy. Pre-requisites: Algebra, Chemistry and Biology. Co-Requisites: 10-514-172, 10-514-173, 20-806-206

Introduction to Occupational Therapy

OTASST 10514172 Medical and Psychosocial Conditions 3 Credits/Units Introduces medical and psychosocial conditions as they relate to occupational therapy practice. Topics include etiology, symptomology, treatment and contraindications. Pre-requisites: Algebra, Chemistry and Biology. Co-Requisites: 10-514-171, 10-514-173, and 20-806-206

OTASST 10514173 2 Credits/Units Provides instruction in activity analysis with hands on experience in activities across the lifespan. Students apply the teaching/learning process and adhere to safety regulations. Pre-requisites: Algebra, Chemistry and Biology. Co-Requisites: 10-514-171, 10-514-172, and 20-806-206

OTASST 10514174

Emphasis on the development of skills related to assessment and intervention in the areas of sensory, motor, cognition and communication.

OTASST 10514175

OTASST 10514176

Examines the theoretical foundations that guide OT practice. Apply group dynamics and demonstrate leadership skills.

OTASST 10514177

Explores technologies that support delivery of OT services. Emphasis on competency related to computer skills, ergonomics, adaptive devices, and environments. Prerequisites: 10-514-174, 10-514-175, 10-514-176, 10-514-178. Co-requisites: 10-514-179, 10-514-182, 10-514-183, 10-514-184.

OTASST 10514178 **Geriatric Practice** Examines the role of the OT in the service delivery to elders in a variety of settings. Includes analysis of the impact of age-related changes and disease processes on the function of the elderly. Pre-requisites:10-514-171, 10-514-172, 10-514-173 & 20-806-206. Co-requisites: 10-514-174, 10-514-175, 10-514-176

OTASST 10514179

Explores practice options and interventions for occupation-based community practice. Students articulate the unique role of occupational therapy within the community. Prerequisites: 10-514-174, 10-514-175, 10-514-176, 10-514-178. Co-requisites: 10-514-176, 10-514-176, 10-514-178. 514-177, 10-514-182, 10-514-183, 10-514-184

OTASST 10514182

Physical Rehabilitation Practice Explores interventions relative to major physical disability diagnoses seen in OT practice. Evaluation, treatment interventions, and documentation are emphasized relative to the biomechanical, neurodevelopmental and rehabilitative approaches to practice. Prerequisites: 10-514-174, 10-514-175, 10-514-176, 10-514-178. Co-requisites: 10-514-177, 10-514-179, 10-514-183, 10-514-184.

OTASST 10514183

Pediatric Practice

OTA Fieldwork 1

Community Practice

Explores interventions relative to major pediatric diagnoses seen in OT practice. Evaluation, treatment interventions, and documentation are emphasized within the context of the child's occupations. Prerequisites: 10-514-174, 10-514-175, 10-514-176, 10-514-178. Co-requisites: 10-514-177, 10-514-179, 10-514-182, 10-514-184.

OTASST 10514184

Integrate classroom theory and practice into a Fieldwork Level I experience. Provides experiences to assist in the development of communication. professional and observational skills. Prerequisites: 10-514-174. 10-514-175. 10-514-176. 10-514-178. Corequisites: 10-514-177, 10-514-179, 10-514-182, 10-514-183

OTASST 10514185

OT Practice and Management

Provides opportunities to practice clinical management skills, continuous quality improvement measurement, and administrative concepts and procedures. Students create a professional development plan.

OTASST 10514186

OTA Fieldwork IIA

5 Credits/Units

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3 Credits/Units 3 Credits/Units

4 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units





3 Credits/Units

Activity Analysis and Application

OT Performance Skills

Ot Fw:Specialty

OT Theory and Practice

Assistive Technology and Adaptations

Develop skills and behaviors necessary for entry-level occupational therapy assistant practice. Provides a different clinical practice setting than OTA Fieldwork IIB. Prerequisites: 10-514-177, 10-514-179, 10-514-182, 10-514-183, 10-514-184. Co-requisites: 10-514-185, 10-514-187.

	OTA Fieldwork IIB sary for entry level occupational therapy assistant practice. Provides a differentiation of the sequisites: 10-514-177, 10-514-179, 10-514-182, 10-514-183, 10-514-184	
PAINTDEC 50424590 This course description is unavailab	Tech Paint Sem 1 le at this time. Please contact the center offering the course for more info	2 Credits/Units rmation.
PAINTDEC 50424591 This course description is unavailab	Tech Paint Sem 2 le at this time. Please contact the center offering the course for more info	2 Credits/Units rmation.
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PAINTDEC 50424595 This course description is unavailab	Tech Paint Sem 6 le at this time. Please contact the center offering the course for more info	2 Credits/Units rmation.
PARALEG 10110101 Provides students with an introduction research, and the common law of to	Introduction to Paralegalism and Legal Ethics on to the paralegal profession, the American legal system, legal ethics, leg rts.	3 Credits/Units gal terminology,
PARALEG 10110102 Outlines the initial stages of civil litig	Civil Litigation I ation, including initial client contact, investigation, pleadings and motions.	3 Credits/Units
PARALEG 10110103 Covers the civil litigation procedure	Civil Litigation 2 during discovery, trial, and appeal.	3 Credits/Units
	Legal Research n of legal research techniques, using traditional and computer-assisted re exercises and document preparation exercises.	3 Credits/Units sources. Involves
PARALEG 10110105 Concentrates on the skills required to	Legal Writing for legal writing and analysis.	3 Credits/Units
PARALEG 10110106 Family Law covers the basic legal c	Family Law oncepts in the area of family relations, particularly divorce.	3 Credits/Units
PARALEG 10110107 Acquaints students with legal aspect organizations utilized in the United S	Legal Aspects of Business Organizations ts of the formation, operation, and dissolution of the five principal types of States.	3 Credits/Units business
PARALEG 10110110 Includes drafting real estate descrip pleadings, transfer tax returns, and	Real Estate Law - Paralegal tions, listing contracts, offers to purchase, deeds, land contracts, mortgage leases.	3 Credits/Units es, foreclosure
	Administration Of Estates - Paralegal Program owers of attorney, wills, trusts, and intestacy, including probate forms and in the Administration of Estates class.	3 Credits/Units procedures as well as
	Administrative Law cquaint students with the process by which government agencies make ar adjudicate cases and controversies involving those rules.	3 Credits/Units ad administer rules and
PARALEG 10110116	Elder Law: Healthcare, Public Benefits and the Administrative Law Process	1 Credits/Units



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Gain familiarity in this growing area of elder law! This course will provide an overview of healthcare and public benefits available to older adults. Students will examine Medicare, Medicaid, and Social Security policies regarding eligibility for benefits, denials, overpayments, and appeals. Administrative code provisions, benefit manuals, and federal and state statutes will be analyzed as students prepare an argument and exhibits for an administrative law hearing.

PARALEG 10110119

This course provides practical knowledge in advanced family law matters. It covers the final stages of divorce, post-judgment matters, collecting evidence for trial, and non-traditional families under the law.

Advanced Family Law

PARALEG 10110120

Guardianships & the Protective Services System This course will walk students through the process of evaluating client capacity, the statutory requirements and procedures for filing

a guardianship action, and the related protective services system. Students will draft pleadings, court orders, and letters to clients. A variety of client situations will be discussed and analyzed with regard to legal ethics and alternatives to guardianships.

PARALEG 10110122

Federal bankruptcy laws. **PARALEG 10110140**

Word and Excel for Legal Professionals

This course provides a more advanced look at the application of Microsoft Word and Excel to a functioning law office. Microsoft Word and Excel are powerful and underutilized programs in most law offices. These applications will be explored to uncover the features most applicable to law offices and paralegals in their daily tasks. A basic understanding of computers, word processing, Word, and Excel are expected prior to taking the course.

PARALEG 10110141

Computer Applications - Legal

Employment Law - Paralegal

Paralegal Internship

Debtor & Creditor Relations

Students develop technology skills using various law office computer applications.

PARALEG 10110142

Students gain practical experience working in a legal environment under the supervision of an attorney or other qualified professional for a minimum of 140 hours.

PARALEG 10110160

Employment Law covers the analysis of federal and state laws governing employment relationships, job discrimination, sexual harassment, workplace privacy, labor standards, and human resource management.

PARALEG 10110168

Criminal Law 1 - Paralegal

Intellectual Property Law

Criminal Law 2

Provides an introduction to substantive and procedural criminal law emphasizing the elemental analysis of criminal statutes, the drafting of prosecutorial documents, and the Constitutional rights of defendants.

PARALEG 10110169

This course builds on the foundation developed in Criminal Law 1, requiring students to apply previously learned 4th, 5th, and 6th Amendment and other constitutional law principles to the unique facts of three mock trial cases. Heavy emphasis is placed upon generating "real world work product" tied to trial preparation, with particular focus on trial-related discovery issues and motion practice. Ethical and effective witness interviewing techniques/practices and settlement preparation are also covered.

PARALEG 10110170

This course introduces paralegal students to the law of trademarks, copyrights, and patents. It covers the basic requirements for protecting these forms of intellectual property; identifies the sources of authority that govern intellectual property law; explains the types of rights in intellectual property that are available; introduces the concepts of infringement and defenses to infringement claims; and surveys of the types of remedies used to compensate an owner for infringement.

PARALEG 10110171

This 3 credit legal specialty course addresses topic areas of current interest in the legal community and will vary by semester.

Law & Contemporary Problems

Environmental Law - Paralegal

PARALEG 10110172

This course introduces the student to the study of environmental law with emphasis on the role of the paralegal in this field. It surveys major environmental acts in the United States, such as the Clean Air Act. Clean Water Act, and other legislation. The course also presents an overview of the treatment of issues concerning the environment from a legal perspective.

PARALEG 10110173

Contract Law in a Global Economy This survey course explores the common law of contracts, contracts of sale under Article 2 of the UCC, and the legal issues and risks that affect business transactions in the global marketplace.

PARALEG 10110175

Orientation to the Paralegal Profession

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3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

1 Credits/Units

Effective: 2016-2017

1 Credits/Units

1 Credits/Units

3 Credits/Units Considers pre and post-judgment collection rights, creditor protection devices, State and Federal consumer protection laws, and

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units



This course will (i) introduce students to the paralegal profession; (ii) acquaint students with the classes offered in the paralegal program; (iii) provide students with tools for success in the paralegal program and the paralegal career field; (iv) administer the required paralegal program entrance keyboarding test; and (v) advise and enroll students in their fall semester courses.

PARALEG 10110176

Career Building Techniques - Paralegal

This course will focus on internship and career strategies; effective portfolios, resumes and cover letter; the internship experience; interview techniques; finding an internship site including sites for students interested in receiving the Program's International Certificate; job hunting resources and alternative career paths; strategies for success in the work place; and advancing in your career; and getting your next job.

PHILOS 10809166

Intro to Ethics: Theory & App

This course provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/or professional standards of behavior, and apply a systematic decision-making process to these situations.

PHILOS 20809258

Philosophy Through Film

Classics in Philosophy

This course is a general introduction to philosophy for students who may or may not be interested in taking any further philosophy classes. It will use the uniquely vivid and compelling medium of film to introduce students to important philosophical questions about such things as personal identity, consciousness, ethics and morality, freewill and determinism, the limits of knowledge, time travel, and the possibility of intelligent machines. Readings that explore the topics introduced through the assigned films will be drawn from a range of authors from both Western and non-Western philosophical traditions. Students' ability to think critically and creatively will be developed through the exploration of proposed answers to various philosophical questions with an emphasis on how to evaluate the reasons given in support of and in opposition to proposed answers.

PHILOS 20809259

This course examines influential Ancient Greek classical texts of philosophy (in translation) by such writers as Plato, Aristotle, and the Hellenistic philosophers. Examples of the texts are: Plato's Republic, Aristotle's Nicomachean Ethics, and Marcus Aurelius' Meditations. Learners will be introduced to a range of important ideas, arguments, and theories advanced by these philosophers. The emphasis of the course will be on a close, critical reading of a few texts resulting in interpreting, understanding, analyzing, and crucially evaluating the various ideas, arguments, and theories that arise from the text.

PHILOS 20809260

Intro Philosophy

This course introduces various fields of philosophy, philosophical methodology and the history of philosophy. Examines some philosophical issues in depth and develops the ability to think, speak and write critically about these problems that have concerned human beings for centuries.

PHILOS 20809261

Elementary Logic

A course in contemporary formal (symbolic) logic covering both propositional and predicate logic with identity. Students will learn to translate arguments into symbolic notation and then test validity using natural-deduction proof procedures, truth tables, truth trees, and counter examples. Fulfills the Quantitative Reasoning Part B requirement at UW-Madison, as well as the logic requirement at Edgewood College. Assumes a solid background in Algebra.

For a course focused on critical thinking and informal logic, see course #20809264, Introduction to Logic and Critical Thinking (previously called Reason in Communication), which fulfills the Quantitative Reasoning Part A requirement at UW-Madison as well as the logic requirement at Edgewood College.

PHILOS 20809262

Contemporary Moral Issues

This course introduces students to several different ethical theories and how they apply to contemporary moral controversies, such as the death penalty, war and terrorism, reproductive choices, immigration, environmental ethics, and free speech. This course aims at showing how many moral controversies are as much about the legitimate use of state authority as they are about moral disagreement.

PHILOS 20809263

East/West World View - Liberal Arts Transfer

East/West Worldviews examines worldviews and their underlying assumptions. Worldviews are sometimes rooted in philosophy, religion and myth, each characterized by its rituals and symbols. The course focuses on the religions originating in India (Hinduism and Buddhism); in East Asia (Confucianism, Taoism, Shintoism, Zen Buddhism); and in the Middle East (Judaism, Christianity, Islam). Also includes Western rationalism and the scientific view of the cosmos. It studies the ways in which philosophy and/or religion affects the concepts of nature, self, society and ultimate reality.

PHILOS 20809264

Introduction to Logic and Critical Thinking

3 Credits/Units



Real world smart.

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3 Credits/Units

3 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

2 Credits/Units

An informal logic course (previously called Reason in Communication) that emphasizes critical thinking. Students will learn argument structure, different forms of inductive reasoning, how to recognize informal fallacies, and how to distinguish better and worse reasoning in the media and our everyday lives. Fulfills the Quantitative Reasoning Part A requirement at UW-Madison, as well as the logic requirement at Edgewood College.

This course includes an introduction to propositional logic, but for those students interested in a formal (symbolic) logic course, see course #20809261, Elementary Logic, which fulfills the Quantitative Reasoning Part B requirement at UW-Madison, as well as the logic requirement at Edgewood College.

PHILOS 20809266 **Ethics In Medicine**

Behavior within the healthcare system, whether as a patient or as a healthcare worker, presents challenges that differ from the typical consumer environment or the typical workplace. This course explores these differences and presents and discusses ethical issues particular to medicine. Heightens awareness and examines ways to conduct one's self within this healthcare environment.

PHILOS 20809268

Investigates American conceptual frameworks used in understanding what makes for a "good society," with emphasis on the dominant individualistic tradition and its "multicultural" competitor. Drawing upon social scientific and philosophical constructs, discussions demonstrate how public issues manifest deeper cultural divisions over "social justice." The development of a theory of justice provides the basis for a normative or ethical understanding of society and its institutions.

PHILOS 20809276 **Business Ethics** 3 Credits/Units Most of us will spend a large portion of our lives immersed in the world of work. As employees and/or employers, we face decisions everyday that depend on fundamental moral assumptions about honesty, fairness, liberty and privacy. We are all likely to have different ideas about what these concepts mean, or ought to mean, and justify our actions accordingly. This course aims to help us evaluate the moral choices we make in a business setting, and to that end philosophers employ the use of argument. By careful use of argument we will critically assess not only moral choices in the workplace, but also the moral assumptions that underlie capitalism, the economic system under which most people in the world are working. The issues that arise is business affect us all in critical ways. Whether we are debating the merits of affirmative action in hiring, corporate responsibility and profits, terms of employment, conflicts of interest or whistleblowing, this course will examine our assumptions and help us reach a clearer understanding of what we ought to do and why.

PHOTO 10203105

Photo Composition

Studio Photography 2

Studio Photography 3

Social Ethics

A survey of composition as an important tool of the photographer that helps to establish purpose and meaning to visual statements. Includes an introduction to the history of photography and the field of professional photography through the work of some noted photographers. Written and photographic assignments are required.

PHOTO 10203107

Studio Photography 1 Basic theory and practical application of the fundamentals of photography. Students will learn the basics of DSLR cameras, lenses, the light meter, digital exposure and capture, basic studio lighting with hot lights and studio equipment handling.

PHOTO 10203108

Continuation of Studio Photography 1 with emphasis on advanced studio strobe lighting techniques, and metering and exposure for extreme scenes. Students will also learn the differences between professional digital backs and DSLR systems through hands-on experience with each format.

PHOTO 10203109

This is an advanced level studio course offering students the opportunity to hone their skills. The course consists of 3 projects created by the instructor and 3 created by the student. Student may choose to create images that express their individual areas of interest. Images that are created in this course may be used in final portfolios.

PHOTO 10203120

Lighting Technique Introduction to the laws of light, learning the qualities of natural and artificial light sources. Students will acquire specific skills in these areas: hard and soft light; lighting direction; incident and reflective exposure determination; lighting for shape and texture; lighting glassware; lighting reflective subjects; basic lighting for simple portraiture; and operation of professional lighting equipment in the studio.

PHOTO 10203121

3 Credits/Units **Commercial Photography 1** Professional digital photography with an emphasis on the production of photographic illustration of high quality for use in advertising, promotion and print ad. It combines lectures and demonstrations along with practical experience. Students will polish their photographic skills while developing additional skills in commercial photography.

PHOTO 10203124

Portrait Photography

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

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2 Credits/Units

Effective: 2016-2017

3 Credits/Units

Theory and principles of professional digital portrait photography. Studio and environmental portraiture. Emphasis on lighting, posing and character analysis.

PHOTO 10203125

Business Of Photography

Intro Digital Photography

This course is designed to help students understand the basic principles of creating a photo business. Throughout the semester students will research and create their own business plans. Areas such as sales revenue forecast, marketing, overhead and capital spending plan will be explored.

PHOTO 10203126

Advanced Digital Studio Portrait

Develops advanced studio portrait skills utilizing digital capture equipment for photo output. Emphasis on special projects and cooperative shooting situations with other programs using a wide variety of tools, materials and techniques.

PHOTO 10203130

Provides an introduction to the photographic process through the use of digital cameras to produce images for presentations, the World Wide Web, and electronic publication. Covers basic principles of effective composition, light, exposure and control of motion and focus. Basics of portraiture and product photography is studied in a studio environment. Participants provides their own digital camera.

PHOTO 10203134

Electronic Imaging

Color Photography 1

Color Photography 2

This course explores advanced computer skills, issues and skills unique to electronic image handling, utilization of image enhancement software, operation of desktop scanners as input devices, preparation of image for the World Wide Web, and legal and ethical issues regarding electronic image handling and manipulation.

PHOTO 10203141

Basic introduction to additive and subtractive color theory using digital color principles. Digital image capture, manipulation and output will be covered, along with basic color management principles and techniques.

PHOTO 10203142

Uses hands-on exercises and assignments, requiring students to apply basic principles and techniques of digital color workflow to real-world imaging situations. Students will also learn and apply advanced principles and techniques of digital color workflow, and create their first significant digital color print portfolio.

PHOTO 10203173

Photojournalism

Photography for publication with the visual image used to relate events, ideas or circumstances. Students are exposed to techniques in which news stories can be communicated through visual images in print.

PHOTO 10203174

Photography on Location

From portraits and fashion to architecture and product, working on location presents unique challenges and involves a broad base of knowledge and resources. This class will cover a wide range of information pertaining to working on location. With a heavy focus on lighting techniques, from on camera flash to full strobe set ups and the production side of location photography.

PHOTO 10203176

Photographic Communication

Conditioning/Weight Training

Exploratory in nature, with emphasis on personal projects. and the development of an individual style and identity. Students will be required to produce their own web site, self-promotion pieces and a personal project such as a book of photographs.

PHOTO 10203185

Portfolio Preparation - Photography Program

This course teaches students how to assemble a professional photographic portfolio, showing prospective employers skills and capabilities learned during coursework in the Photography Program. Learning is enhanced via visits to the class by local photo professionals, who show their work to students and review student work. The Portfolio Show highlights the semester's efforts. Departmental approval of the finished portfolio is required.

PHYED 20807210

This course provides the learner to develop the knowledge skills process and understanding of exercise/resistance training through short lectures and physical activity using the fitness center to enhance muscular conditioning and personal fitness. The course also covers basic information about diet, nutrition, and weight management.

PHYED 20807219

Introduction to Kinesiology This course is intended to introduce students to the field of Kinesiology. Introductory material about physical activity and health will be provided, and departmental faculty and invited speakers will discuss their areas of expertise. In addition, career opportunities in Kinesiology will be discussed.

PHYED 20807223

Beginning Volleyball

This is an introductory course in power volleyball. It includes skills basic to the power game as well as rules and strategy for the beginner player. Fitness activities specific to volleyball will be included.

MADISON

AREA | TECHNICAL COLLEGE

2 Credits/Units

1 Credits/Units

3 Credits/Units

1 Credits/Units

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Real world smart.

Effective: 2016-2017

1 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

MADISON AREA | TECHNICAL COLLEGE

Madison Area Technical College

Swimming for Fitness is designed to help the student achieve and maintain a good fitness level and perfect swimming strokes. Recommendation: Intermed Swim, 20807231 or ability to swim 500 yards continuously and ability to perform front crawl, back crawl and breast stroke in good form.

Swimming for Fitness

Beginning Swimming

PHYED 20807230

PHYED 20807229

This course introduces basic aquatic skills including front crawl, backstroke, breast stroke, and sidestroke. It also emphasizes the knowledge and skills necessary in treading water, diving and self rescue.

PHYED 20807232 Water Exercise 1 Credits/Units Water Exercise is a refreshing alternative to traditional land-based programs. This form of exercise provides fitness, fun and safety for people of all ages and abilities.

PHYED 20807233 Lifequard Training 2 Credits/Units Lifeguard Training teaches current Red Cross lifeguarding principles and techniques, including CPR for the Professional Rescuer and First Aid. Prerequisite: 1) Minimum age of 15 2) Swim 300 yards continuously 3) Starting in the water, swim 20 yards using front crawl or breaststroke, surface dive 7-10

feet, retrieve a 10-pound object, return to the surface, swim 20 yards back to the starting point with the object and exit the water without using a ladder or steps, within 1 minute, 40 seconds.

PHYED 20807236 **Beginning Tennis** 1 Credits/Units Beginning Tennis focuses on basic stroke development. Rules and strategy of singles and doubles games are included.

PHYED 20807245

Social Dance 1 Credits/Units Social Dance is an introductory class in contemporary ballroom dance styles including the waltz, foxtrot, swing, tango and the chacha.

PHYED 20807247 Jazz 1 This is an introductory course in contemporary jazz dance technique. Emphasizes the development of warm-up sequences, isolations, contractions, jazz walks, progressions, turns, combinations and improvisation

PHYED 20807248 Ballet 1 Credits/Units Ballet introduces classical ballet technique and emphasizes the acquisition of proper ballet technique, postural alignment and increased flexibility.

PHYED 20807250 **Badminton** Badminton is an introductory course in competitive badminton which develops basic skills, strategy and knowledge of the rules of the game.

PHYED 20807252 **Beginning Pilates** This course will cover the principles and practice of the Pilates method of conditioning. It will emphasize core muscle function to develop optimal muscle tone and integrated, fluid body movement. Beginning and some intermediate Pilates mat exercises will be practiced.

PHYED 20807254 Beginning Yoga This course introduces the practice of voga. It explores the philosophy that underlies voga as a means of stress management. fitness and conditioning. Designed for beginners, the course teaches gentle movements, yoga poses, breathing techniques and

meditations that relax both the mind and the body. PHYED 20807255 **Prev/Care Athletic Injuries** 2 Credits/Units This course is designed to give an introduction to the care and prevention of athletic injuries, including emergency care, taping

techniques and treatment/rehabilitation of injuries. It is also useful for students interested in the fields of athletic training, teaching or coaching.

PHYED 20807260

This course will practice footwork, blocks, strikes, kicks and martial art forms. Class will focus on development and improvement of stable mobility, dynamic balance, agility and fluid movement in dynamic postures. Emphasis will be on efficient, articulate and integrated movement fundamental to martial art skill development. Movement and forms will be progressive but also adaptable to a variety of goals and abilities.

PHYED 20807264

Martial Arts Fundamentals

Intermediate Yoga

Effective: 2016-2017

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

1 Credits/Units

Enhances the practice of yoga. Continues the exploration and the philosophy that underlies yoga as a means of stress management, fitness and conditioning. Designed for intermediate participants, the course covers yoga poses, breathing techniques and meditations that relax both the mind and the body.

PHYED 20807266

Wellness Today is a contemporary approach to the total wellness concept. It covers fitness and exercise, nutrition and stress management, culminating with personal planning toward lifetime wellness

PHYED 20807267

A contemporary approach to the total wellness concept. It covers fitness, nutrition and stress management, culminating with personal planning toward lifetime wellness.

Blueprint for Healthy Living

PHYED 20807268

Examine how nutrition, sleep hygiene, stress management, yoga, and meditation impact health and longevity. Discuss the effects of lifestyle choices and daily behavior on overall wellness. Integrate wellness principles into a written plan and practice the principles in a retreat setting. This course includes an offsite retreat component.

PHYED 20807271

Bicycle Conditioning Provides the opportunity for the learner to develop the knowledge skills process and understanding of cardiovascular endurance and fitness through short lectures and physical conditioning on stationary fixed-gear "spinning" bikes with music as a motivator.

PHYED 20807289

Aerobics/Weight Training This course provides the opportunity for the learner to develop the knowledge skills process and understanding of exercise through short lectures and a variety of physical activities to enhance personal fitness. The course involves participation in individual and group exercise activities in the fitness center and in the gym. The course also covers basic information about diet, nutrition, and weight.

PHYSICS 10806139

kinematics, dynamics, work, energy, power, temperature, heat, waves, electricity, magnetism, electromagnetic waves, optics, and atomic and nuclear physics.

This course presents the applications and theory of basic physics principles. This course emphasizes problem solving, laboratory investigation and applications. Topics include laboratory safety, unit conversions and analysis, kinetic, dynamics, work, energy, power, temperature and heat.

PHYSICS 10806154

Presents the applications and theory of basic physics principles. This course emphasizes problem-solving, laboratory investigation, and applications. Topics include unit conversion and analysis, vectors, translational and rotational kinematics, translational and rotational dynamics, heat and temperature, and harmonic motion and waves.

PHYSICS 20806220

Have you ever looked at something and said to yourself "I wonder how that works?" If so, this is the course for you. The Physics of Everyday Life will explore basic principles of physics including classical mechanics, fluids, heat, resonance, waves, light and electricity and magnetism through the lens of everyday objects. We will gain insight through studying objects such as bumper cars, roller coasters, light bulbs, musical instruments and microwave ovens.

PHYSICS 20806221

University Physics 1 is the first semester of a one-year introductory course. Students develop a conceptual understanding of the basics of physics and are provided with practical hands-on lab experience, which helps to broaden the understanding of physics. This course covers the basic properties of motion, force, energy, momentum, rotation, fluids, heat and relativity. It stresses developing good problem-solving strategies.

PHYSICS 20806222

University Physics 2 University Physics 2 studies thermodynamics, electricity, magnetism, sound, geometric and physical optics through lecture, demonstrations and laboratory work.

PHYSICS 20806223

University Physics 1-Calculus-Based This course is intended for students of science or engineering. The course covers mechanics and heat. It consists of five one-hour lectures and one three-hour laboratory per week and is equivalent to Physics 201 at the University of Wisconsin.

PHYSICS 20806224

University Physics 2-Calculus Based This course is intended for students of science or engineering, and is a continuation of 20-806-223. It covers electricity, magnetism, light and sound and is equivalent to Physics 202 at the University of Wisconsin.

Health & Fitness for Life

3 Credits/Units

4 Credits/Units

3 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

5 Credits/Units

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Effective: 2016-2017

2 Credits/Units

1 Credits/Units

1 Credits/Units

2 Credits/Units

1 Credits/Units

College Physics 1

General Physics 1

Wellness Today

Survey of Physics

3 Credits/Units This course emphasizes understanding basic physics concepts through laboratory investigation and applications. Topics include

PHYSICS 10806143

Physics of Everyday Life

University Physics 1

PHYSICS 20806232 Statics 3 Credits/Units Statics is the study of particle and rigid body equilibrium. The course will give students the tools required to calculate forces transmitted to different parts of a structure, given a set of loads acting on it. Vector mathematics is developed and used to analyze complex physical systems. Distributed loads are analyzed with the theory of centroids and moments of inertia.

PHYSICS 20806291 Introduction to Renewable Energy 3 Credits/Units This course provides an introduction to renewable energy technology. The course is grounded in the fundamentals of energy, power, and the first and second laws of thermodynamics. A scientific approach is used to examine various energy sources, including fossil fuels, nuclear, biomass, biofuels, solar, hydro, wind, geothermal, and ocean/tidal power. Various types of energy storage technology are also examined. Science and engineering challenges are examined for each energy technology, along with economic and environmental impacts. This course is suitable for any student with an interest in renewable energy, particularly those pursuing studies in scientific, technical, and engineering fields.

PHYSICS 31806363 Science 1 2 Credits/Units Science 1 covers basic principles of physics that have frequent and common practical applications for students pursuing vocations in trade and industry. This course relates applications to student vocational fields. Includes measurement, mechanics, machines, properties of matter, fluid principles, heat and electricity. Features lecture, discussion and laboratory.

PLASTIC 50463501 Industrial Math 1 0 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

PLASTIC 50463502	Industrial Math 2	0 Credits/Units
This course description is unavailable a	at this time. Please contact the center offering the course for more in	formation.

PLASTIC 50463503 Industrial Math 3 0 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

PLASTIC 50463504 Industrial Math 4 0 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

PLASTIC 50463507	Inj Mold Processes 1/Schemat 1	1 Credits/Units
This course description is una	available at this time. Please contact the center offering	the course for more information.

PLASTIC 50463508 1 Credits/Units Inj Mold Processes 2/Schmemat 2 This course description is unavailable at this time. Please contact the center offering the course for more information.

PLASTIC 50463509 1 Credits/Units Inj Mold Processes 3 And Spc 1 This course description is unavailable at this time. Please contact the center offering the course for more information.

PLASTIC 50463510	Inj Mold Process 4 And Spc 2	1 Credits/Units
This course description is ur	navailable at this time. Please contact the center offering the court	rse for more information.

PLASTIC 50463517	Basic Machining Practices 1	1 Credits/Units
PLASTIC 50463518	Basic Machining Practices 2	1 Credits/Units
PLASTIC 50463519	Fluid Power 1	0 Credits/Units
PLASTIC 50463520	Fluid Power 2	0 Credits/Units
PLASTIC 50463521	Electricity/Electronics 1	0 Credits/Units
PLASTIC 50463522	Electricity/Electronics 2	0 Credits/Units
PLASTIC 50463523	Thermoset/Mold Prac 1 & Insp 1	1 Credits/Units
PLASTIC 50463524	Thermoset/& Mold Prac 2 & Insp 2	1 Credits/Units
PLUMBNG 50427550 This course description is unavailable a	Trade Plumbing Semester 1 at this time. Please contact the center offering the course for more infor	2 Credits/Units mation.

PLUMBNG 50427551

Trade Plumbing Semester 2

2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.



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PLUMBNG 50427552 **Trade Plumbing Semester 3** This course description is unavailable at this time. Please contact the center offering the course for more information.

Trade Plumbing Semester 4

PLUMBNG 50427553

This course description is unavailable at this time. Please contact the center offering the course for more information.

PLUMBNG 50427554 **Trade Plumbing Semester 5** 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

PLUMBNG 50427555 **Trade Plumbing Semester 6**

This course description is unavailable at this time. Please contact the center offering the course for more information.

PLUMBNG 50427556 Trade Plumbing Semester 7 This course description is unavailable at this time. Please contact the center offering the course for more information.

Water Distribution 1

PLUMBNG 50427751 2 Credits/Units Sanitary Drains 1 Plumbing related instruction of sanitary drain systems. Course includes a review of codes and trade practices related to sanitary drains, drainage systems, components and applications.

PLUMBNG 50427752

Vents and Venting Systems This course is designed to provide the apprentice with the skills to identify and design sanitary vent piping in a plumbing system in accordance with the Wisconsin Plumbing Code. The course focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

PLUMBNG 50427753

Provides the apprentice with the skills to identify, design, install, and service various applications for water supply systems listed in plumbing codes. Apprentices will use the code language and tables to in various plumbing systems in accordance with the Wisconsin Plumbing Code. Topics will include commercial to single-family and private well pump systems. Focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations. Plumbing Apprentice students only.

PLUMBNG 50427754

Water Distribution 2 Provides the apprentice with the skills to identify, design, install, and service cross connection controls, water treatment equipment and multi-purpose piping systems in various plumbing systems in accordance with the Wisconsin Plumbing Code. Focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

PLUMBNG 50427755

Sanitary Drains 2 Provides the apprentice with the skills to identify, design, install, and service various applications for storm water, clear water, and drainage systems. Apprentices will use the code language and tables to in various plumbing systems in accordance with the Wisconsin Plumbing Code. The course focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

PLUMBNG 50427756

Private On-Site Wastewater Treatment Systems (POWTS)

Provides the apprentice with the skills to identify, design, install, and service various applications for private on-site wastewater treatment systems that are listed in plumbing codes or individual component manuals. Apprentices will use the code language and tables to in various plumbing systems in accordance with the Wisconsin Plumbing Code. Other topics will include pretreatment, soil evaluation, site planning, and new technologies. Focuses on theory, work experience, and the application of plumbing code principles through discussions, drawing exercises, work sheets, and evaluations.

PLUMBNG 50427758

Plumbing Advanced Topics/TSA Provides the apprentice with the opportunity to select and complete an applied plumbing project in collaboration with the instructor. Projects will apply the skills required to identify, design, install, and service various plumbing applications that are listed in plumbing codes. Apprentices will use the code language and tables to in various plumbing systems in accordance with the Wisconsin Plumbing Code. The course builds upon the theory, work experience, and the application of plumbing code principles addressed in previous coursework to support completing an applied hands-on project.

POLISCI 10809122

Intro to Amer Government

Introduction to American Government focuses on the structure and functioning of state and local governments within the context of federalism. It emphasizes decision making, structure, theory, behavioral characteristics and citizen participation.

POLISCI 20809218

Law and Society

Law and Society deals with the nature of law and legal processes as instruments of social control. Students are introduced to legal structures and processes, and examine the philosophy of law within political, social and economic frameworks.



Effective: 2016-2017

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

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POLISCI 20809220

American Foreign Policy

American Foreign Policy addresses conduct of the U.S. as an international actor. It covers problems, challenges and persistent patterns in American policy since the close of World War II. How foreign policy is made is included and attention is given to the interactions of individuals, groups, roles and organizations.

POLISCI 20809221

American Ntl Govt American National Government utilizes a systems approach to emphasize the relationships between structure and behavior. Political theory and methodology are stressed. Students are encouraged to improve research and analytical skills. The course includes the U.S. Constitution, elections, interest groups, parties, mass media, congress, judiciary, the presidency and bureaucracy.

POLISCI 20809222

State and Local Government addresses the functioning of state and local governments and relates them and their activities to the federal government. Behavioral characteristics of state and local governments in the total decision-making process are stressed. Discussion covers the importance and functioning of political parties, special interest groups, elections, legislatures, courts and executives.

POLISCI 20809223

International Relations

State and Local Government

International Relations covers methods employed by nation-states in interacting with each other and the forces influencing the nature of interaction. Includes institutions that have been erected in nation-states' guest for power, peace and security. It emphasizes nationalism, ideology, regional integration and trade.

POLISCI 20809227

Political Theory

Political Theory is a subcategory within the broader social science discipline of Political Science. This course examines core political thinkers, concepts, and ideologies necessary to study and understand various political phenomena and critical interactions. This course presents fundamental knowledge and basic skill / ability training to research and discuss important political phenomena.

POLISCI 20809242

Public Policy This course examines the public policy process in the United States through the analysis of key policy concepts, theories, and analytical models (e.g., policy analysis and policy evaluation). The goal of this course introduce student to various areas (e.g., criminal justice, health/human services) to develop students' analytical understanding of the policy process and communication/critical thinking skills.

POLISCI 20809243

This course teaches students how to use comparative methodology to analyze and evaluate various political institutions. Students enrolled in this course will (a) use "most-similar" and "most-different" approaches to study political phenomena within a global context and (b) develop "core abilities" such as critical thinking abilities and communication skills.

POLISCI 20809244

This undergraduate course advances student knowledge, understanding, and appreciation of the Russian political system using a multidisciplinary approach. In this course students use "worlds systems theory" and "comparative methodology" to (a) "review" relevant political system history, (b) "summarize" important informal & informal institutions, (c) "analyze" critical political system variables, and (d) "evaluate" political system variables within a globalizing international environment.

POLISCI 20809245

Latin American Politics

Comparative Politics

Russian Politics

African Politics

This undergraduate course advances student knowledge, understanding, and appreciation of the Latin American political system using a multidisciplinary approach. In this course students use "worlds systems theory" and "comparative methodology" to (a) "review" relevant political system history, (b) "summarize" important informal & informal institutions, (c) "analyze" critical political system variables, and (d) "evaluate" political system variables within a globalizing international environment.

POLISCI 20809246

This undergraduate course advances student knowledge, understanding, and appreciation of the African political system using an interdisciplinary approach (i.e., social sciences and humanities). In this course students use worlds systems theory and comparative methodology to (a) review relevant political system history, (b) summarize important informal & information institutions, (c) analyze critical political system variables, and (d) evaluate political system variables within a globalizing international environment.

POLISCI 20809247

Introduction to East Asian Politics

undergraduate course advances student knowledge, understanding, and appreciation of the Asian political system using an interdisciplinary approach (i.e., social sciences and humanities). In this course students use worlds systems theory and comparative methodology to (a) review relevant political system history, (b) summarize important informal & information institutions, (c) analyze critical political system variables, and (d) evaluate political system variables within a globalizing international environment.

POLISCI 20809248

Politics of India

3 Credits/Units

3 Credits/Units

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3 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units



Real world smart.

Madison Area Technical College

This course examines the Political system of India by summarizing, analyzing, and evaluating its formal/informal political insitutions. This course provides each student with fundamental knowledge and basic skill/ability training to engage in meaningful Global Studies.

POLISCI 20809254

Political Science Research Methods is a subcategory within the social science discipline of Political Science. Political Science Research Methods provides students with an introduction to the research methods used to explore political public policy questions. In this course, students engage in the following: (a) Knowledge of political research and research design, (b) comprehend theory and hypothesis testing, (c) analyze qualitative and quantitative data, and (d) evaluate analysis findings. This course serves as an inroduction to political science research methods and techniques.

Political Science Research Methods

Human Development

Human Sexuality

Social Psychology

Intro Psychology

Abnormal Psych

PSYCH 10809127

Human Development focuses on human physical, motor, cognitive and social development across the life span. Recognition of and adjustment to normal development stages and typical life problems are emphasized. The roles of parents, peers and environmental factors on development and behavior are highlighted.

PSYCH 10809199 Psychology Of Human Relations 3 Credits/Units This course explores the relationship between general psychological principles and our everyday lives. Students are given the opportunity to achieve a deepened sense of awareness of themselves and others. This understanding is applied to human relations at home and on the job.

PSYCH 20809201

Human Sexuality covers how intimate relationships develop, how to maintain warmth and closeness in relationships and how sexuality is expressed throughout the life cycle. Also covers practical information regarding sexually transmitted diseases, contraception and pregnancy.

PSYCH 20809225

Social Psychology is the study of the individual in the social setting. Topics include interpersonal attraction, aggression, sex roles, attribution, altruism, obedience, conformity, attitude change and others.

PSYCH 20809231

Introduction to Psychology is a study of individual and social behavior including its psychological and physiological bases, development, motivation, emotion, perception, learning and behavior disorders. This course is a prerequisite for several college transfer courses in psychology.

PSYCH 20809233

Developmental Psychology Developmental Psychology covers the principles of human growth and behavioral development, from conception to death. Topics include methods of studying human behavior, theoretical approaches, individual differences, patterns and sequences of development, and relationships with peers and others.

PSYCH 20809237

Abnormal Psychology covers the definition of abnormal behavior, assessment techniques, and descriptions of psychological disorders. It examines theoretical perspectives (biological, psychological, sociocultural) and approaches to treating these disorders.

PSYCH 20809239

This course covers the biological, cognitive and psychosocial aspects of development from conception through childhood.

PSYCH 20809249

This course provides the opportunity for learners to develop knowledge, skills and understanding of educational psychology. Learners will explore contemporary and historical theories surrounding teaching and learning. We will explore both pedagogical (child) and andragogical (adult) learning theory focusing on research, best practices, motivation, development, individual differences, diversity, technology and areas of controversy and debate.

PTASST 10524139

PTA Patient Interventions An introduction to basic skills and physical therapy interventions performed by the physical therapist assistant. PTA Professional Issues 1

PTA Therapeutic Exercise

Child Human Development

Educational Psychology

PTASST 10524140

Introduces the history and development of the physical therapy program; legal and ethical issues; the interdisciplinary health care team; and professional communication skills.

PTASST 10524142

Provides instruction on the implementation of a variety of therapeutic exercise principles. Learners implement, educate, adapt, and assess responses to therapeutic exercises.

PTASST 10524143

MADISON AREA | TECHNICAL COLLEGE

PTA Therapeutic Modalities

4 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

2 Credits/Units

3 Credits/Units

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3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Develops the knowledge and technical skills necessary to perform numerous therapeutic modalities likely to be utilized as a PTA.

PTASST 10524144 PTA Princ of Neuro Rehab

PTASST 10524145 **PTA Princ of Musculo Rehab** 4 Credits/Units Integrates concepts of musculoskeletal pathologies, physical therapy interventions, and data collection in patient treatment.

PTASST 10524146

PTA Cardio and Integumentary Management Integrates concepts of cardiopulmonary and integumentary pathologies, physical therapy interventions, and data collection in patient treatment.

PTASST 10524147

Provides a part-time clinical experience to apply foundational elements, knowledge, and technical skills pertinent to physical therapy practice.

PTASST 10524148

Provides another part-time clinical experience to apply foundational elements, knowledge, and technical skills required of the entry level physical therapist assistant in various practice settings.

PTASST 10524149

PTA Rehab Across the Lifespan

PTA Professional Issues 2

PTA Clinical Practice 1

PTA Clinical Practice 2

A capstone course that integrates concepts of pathology, physical therapy interventions and data collection across the lifespan. In addition the PTA's role in health, wellness and prevention; reintegration, and physical therapy interventions for special patient populations will be addressed. Pre-requisites: 10-524-144, 10-524-145, 10-524-146, 10-524-147; Co-requisites: 10-524-148, 10-524-150, 10-524-151.

PTASST 10524150

Incorporates professional development, advanced legal and ethical issues, healthcare management and administration, and further development of professional communication strategies. Pre-requisites: 10-524-144, 10-524-145, 10-524-146, 10-524-147; Corequisites: 10-524-148, 10-524-149, 10-524-151.

PTASST 10524151

PTA Clinical Practice 3

Provides a full-time clinical experience to apply foundational elements, knowledge, and technical skills required of the entry level physical therapist assistant in various practice settings. Pre-requisites: 10-524-144, 10-524-145, 10-524-146, 10-524-147; corequisites: 10-524-148, 10-524-149, 10-524-150.

PTASST 10524156

PTA Applied Kinesiology 1

PTA Applied Kinesiology 2

Introduces basic principles of musculoskeletal anatomy, kinematics, and clinical assessment. Students locate and identify muscles, joints, and other landsmarks of the lower quadrant in addition to assissing range of motion and strength.

PTASST 10524157

Applies basic principles from PTA Kinesiology 1 to the axial skeleton and upper quadrant including location and identification of muscles, joints, and other landmarks. Assess range of motion and strength of the axial skeleton and upper guadrant. Integrate analysis of posture and gait.

RADTEC 10526149

Radiographic Procedures 1

Prepares radiography students to perform routine radiologic procedures on various parts of the body including the upper body, hip, pelvis and ankle. Students apply knowledge of human anatomy to position the patient correctly to achieve the desired result. Corequisites: 10-526-150, 10-526-158, 10-526-159, and 10-526-168.

RADTEC 10526158

Introduction to Radiography Introduces students to the role of radiography in health care. Students apply legal and ethical considerations to patient care and pharmacology in the radiologic sciences. Corequisites: 10-526-149, 10-526-159, 10-526-168.

RADTEC 10526159

Radiographic Imaging 1 Introduces radiography students to the process of creating radiographic images. Students determine the factors that affect image quality including contrast, density, and distortion. Students apply OSHA standards for health and safety in the darkroom. Corequisites: 10-526-149, 10-526-158, and 10-526-168.

RADTEC 10526168

Radiography Clinical 1

This beginning level clinical course prepares radiography students to perform radiologic procedures on patients with extensive supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. An emphasis of the course is the development of communication and critical thinking skills appropriate to the clinical setting. Corequisites: 10-526-149, 10-526-158, 10-526-159.

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COLLEGE

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3 Credits/Units

Real world smart.

4 Credits/Units Integrates concepts of neuromuscular pathologies, physical therapy interventions, and data collection in patient treatment.

Effective: 2016-2017

3 Credits/Units

2 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

5 Credits/Units

4 Credits/Units

3 Credits/Units

5 Credits/Units

3 Credits/Units



RADTEC 10526170 Radiographic Imaging 2

Prepares radiography students to apply advanced radiographic principles to the production of radiographic images. Students analyze exposure factor considerations, differentiate between film and exposure latitude, and use beam restricting devices.

RADTEC 10526174

ARRT Certification Seminar Radiography prepares individuals for a career in diagnostic radiology (x-ray) as a radiographer. The radiographer is a technologist who produces images of the human body to aid physicians in the diagnosis of injuries and diseases. Grades of the program are eligible to take the entry-level certification examination administered by the American Registry of Radiography Technologists (AART) and may obtain employment in x-ray departments associated with hospitals, medical clinics, veterinary clinics, and private offices.

Program curriculum focuses on theoretical and applied radiography and includes a clinical experience in a radiographic department. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Students learn to use x-ray imaging machines to demonstrate body parts on x-ray films for diagnostic purposes, including diagnostic radiology, bedside and trauma procedures, pediatric radiography, and special procedures.

RADTEC 10526189

Radiographic Pathology 1 Credits/Units Prepares radiography students to determine the basic radiographic manifestations of pathological conditions. Students classify trauma related to site, complications, and prognosis and locate the radiographic appearance of pathologies.

RADTEC 10526190

This fifth-level clinical course prepares radiography students to perform radiologic procedures on patients with some supervision. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. Students are encouraged to demonstrate independent judgment in the performance of clinical competencies.

RADTEC 10526191

Radiographic Procedures 2

Prepares radiography students to perform routine radiologic procedures on various parts of the body including the skull and spine. Students apply knowledge of human anatomy to position the patient correctly to achieve the desired result.

RADTEC 10526192

This second level clinical course prepares radiography students to perform radiologic procedures on patients with extensive supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. An emphasis of the course is the development of communication and critical thinking skills appropriate to the clinical setting.

RADTEC 10526193

This third level clinical course prepares radiography students to perform radiologic procedures on patients with supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. An emphasis of the course is the demonstration of communication and critical thinking skills appropriate to the clinical setting.

RADTEC 10526194

Imaging Equipment Operation

Radiography Clinical 3

Introduces radiography students to the principles and application of x-ray technology. Students analyze how x-rays are produced and determine the corrective actions necessary for common equipment malfunctions. Prerequisite: 10-526-193. Corequisites: 10-526-195, 10-526-196 and 10-526-199

RADTEC 10526195

Radiographic Quality Analysis Prepares radiography students to analyze radiographic images for quality. Students apply quality control tests to determine the causes of image problems including equipment malfunctions and procedural errors. Prerequisite: 10-526-193. Corequisites: 10-526-194, 10-526-195, 10-526-196 and 10-526-199

RADTEC 10526196

Introduces radiography students to other types of imaging including ultrasound, MRI, mammography, and bone density scans. Students analyze the role of various imaging technologies in health care. Prerequisite: 10-526-193. Corequisites: 10-526-194, 10-526-195 and 10-526-199

RADTEC 10526197

Radiation Protection & Biology

Prepares radiography students to protect themselves and others from exposure to radioactivity. Students examine the characteristics of radiation and hoe radiation affects cell biology. Students apply standards and guidelines for radiation exposure.

RADTEC 10526198

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Radiography Clinical 6

Modalities

2 Credits/Units

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3 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

Radiography Clinical 2

Radiography Clinical 5

2 Credits/Units

5 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

Effective: 2016-2017

Real world smart.

Madison Area Technical College

This final clinical course requires students to integrate and apply all knowledge learned in previous courses to the production of high quality radiographs in the clinical setting. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. Students are encouraged to demonstrate independent judgment in the performance of clinical competencies. Prerequisite: 10-526-190

RADTEC 10526199

This fourth level clinical course prepares radiography students to perform radiologic procedures on patients with supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. Students are encouraged to demonstrate independent judgment in the performance of clinical competencies. Prerequisite: 10-526-193. Corequisites: 10-526-194, 10-526-195, 10-526-196.

RECMGT 10109103

Encourages a holistic and comprehensive understanding of the significance of leisure to the individual and society. Emphasizes concepts, theories, and the interrelationships between factors (social, economic, political, and environmental), which influence people's leisure attitudes and behavior.

Radiography Clinical 4

Leisure and Lifestyle

Recreation Programming

RECMGT 10109106

This course provides practical knowledge and experiences on the essential elements and design concepts of program planning. Emphasis is placed on student involvement in planning and directing programs for diverse populations in a variety of physical settings.

RECMGT 10109115

Recreation Administration & Management

Prepares students for entry-level management positions in the leisure services profession. The course is project oriented and will focus on the areas of agency management, human resources, budgeting, risk management and legal issues in leisure services; agency and program evaluation, facility scheduling, and public relations. Students will develop an agency registration manual for presentation to the class.

RECMGT 10109135

Leadership Strategies in Recreation

This course focuses on the development of foundational leadership knowledge and skills within the recreation field. Students will learn and apply various leadership and communication styles, motivational theories, and group dynamics. Students will develop and practice skills for organizing and leading specific recreation activities, including cooperative games and group initiatives.

RECMGT 10109149

Risk Management in Recreation

This course identifies and addresses tort law, negligence, standard of care, and risk mitigation in recreation. It prepares students to manage legal risks associated with recreational experiences and venues. Case studies and mock trials will be used to help illustrate the content. Possible certifications include: Heartsaver First Aid, CPR and AED, WSI, and Lifeguarding.

RECMGT 10109155

Principles for planning, assessing and evaluating resources, areas and facilities. Topics include scheduling, planning and design, assessing resources, routine and preventative maintenance, care of outdoor and natural areas, and impact on the environment.

Facility Operations and Maintenance

Wellness Coaching and Promotion

RECMGT 10109159

This course explores wellness coaching, a growing fitness specialty where healthcare providers and fitness/wellness professionals collaborate to help individuals improve and maintain overall well being. Wellness coaching combines exercise, wellness and health sciences to promote lifestyle modification and behavioral change. Wellness coaches are found in a variety of settings including public, not-for-profit and commercial.

RECMGT 10109160

Inclusive Recreation This course serves as an introduction to inclusion and an understanding of needs and program adaptations relative to recreational pursuits. Topics covered include history, philosophy, purpose, programming, as well as characteristics and needs of individuals with disabilities.

RECMGT 10109162

Introduction to Recreation Introduces new students to the recreation profession and its potential careers. Emphasis is placed on the development of the profession, the community service leisure service system and professional organizations.

RECMGT 10109163

Trends and Topics in Recreation

This course content changes from semester to semester and is based on the hottest and most important recreation trends and topics. Students will explore cutting-edge theories and practices and have an opportunity to explore trends in which they have a particular interest. Course should be taken in the fourth or final semester of study in the program.

RECMGT 10109171

Internship Development and Community Partnerships

Focus on preparing students for the internship experience through the identification of career goals and objectives in order to select an internship site. Topics include placement requirements and policies, resumes, interviewing, letters of application, and the role and issues of professional practice.



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Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

3 Credits/Units

RECMGT 10109173

Group Fitness Development

ACE PREP COURSE - This course is designed to provide the theoretical knowledge and practical skills in preparation for the American Council on Exercise (ACE) Group Fitness Instructor Certification Exam and become effective group fitness instructors. The course uses a two-pronged approach in preparation to become a certified group fitness instructor. Students will have the opportunity for hands on interactive training associated with cuing and class choreography in addition to the theoretical base presented in lectures. By the end of course, individuals should be proficient in presenting class formats such as sculpting, step, kickboxing and hi/lo. Topics include guidelines for instructing safe, effective and purposeful exercises, essentials of the instructorparticipant relationship, the principles of motivation to encourage adherence in the group fitness setting, effective instructor-toparticipant communication techniques, methods for enhancing group leadership, and the group fitness instructor's professional role. Students are strongly encouraged to take both 10-501-153 and 20-806-262 prior to this course.

RECMGT 10109175

Recreation Internship Practicum

Students must complete a 220-hours internship with an approved recreation business agency. The on-site practitioner and internship coordinator supervise the student's progress. This internship can be paid or unpaid.

RECMGT 10109176

Personal Trainer Development

ACE PREP COURSE - This course is designed to give students the knowledge and understanding necessary to prepare for the American Council on Exercise (ACE) Personal Trainer Certification Exam and become effective personal trainers. Through lecture and hands-on learning, this course presents the ACE Integrated Fitness Training (ACE IFT) Model as a comprehensive system for designing individualized programs based on each client's unique health, fitness, and goals. The information covered by this course and the ACE IFT Model will help students learn how to facilitate rapport, adherence, self-efficacy and behavior change in clients, as well as design programs that help clients to improve posture, movement, flexibility, balance, core function, cardio-respiratory fitness, and muscular endurance and strength. Students are strongly encouraged to take both 10-501-153 and 20-80-6262 prior to this course.

RECMGT 10109189

Foundations of Worksite Wellness

Employers are showing increased commitment to developing wellness programs that help recruit and retain employees, enhance health and sense of well being, improve productivity and enrich quality of life. This course prepares you to help employers shape, implement and evaluate these programs through an understanding of the health promotion concept, management issues, theories of behavior change for motivation and skill building, core programming and emerging trends.

RECMGT 10109190

Designed to assist the graduating student with job placement. Self-evaluation and job-related skills, interests, attributes and achievements are discussed. The course reviews how to target job possibilities, write resumes, and includes practical interviewing. The concept of job networking is also stressed. Prerequisite: course should be taken in the final semester of the program.

RECMGT 10109195

Recreation Industry Budget and Financial Management Financial methods and techniques utilized in the recreation industry. Emphasis on sources and methods of financing, forecasting cost and income, budgeting, pricing, grant seeking, sponsorship, fundraising and fiscal management.

RECMGT 10109196

Principles of Outdoor Pursuits

Recreation Seminar

This course provides the fundamental knowledge, skills and experience necessary to lead people in outdoor recreational activities. The course includes topics on trip planning, safety procedures, equipment, leadership methods and expedition behavior for a variety of outdoor trip activities. Classroom as well as experiential involvement required.

RECMGT 10109197

Challenge Course Programming

Learn basic facilitation and technical skills to manage challenge course programs. Topics include philosophy of adventure-based initiatives, belay techniques, safety procedures, rescues, facilitation skills and methods, and team development. This course provides the skills and techniques needed for certification by the Association for Challenge Course Technology (Level 1 or 2). Certification test is included in the course fee.

RECMGT 10109199

Adventure Processing and Facilitation

Provides the skills necessary to facilitate client groups in a variety of outdoor and experiential settings. Topics include philosophy of experiential learning, adventure-based processing, leading group discussions, debriefing, frontloading, metaphor development, and transfer of client learning. Students will develop and facilitate a program with a client group.

RENEWELC 10482101

This course prepares the learner to assess the global energy picture; analyze the causes of wind and wind flow properties; explore small, medium, and large wind turbine designs; assess the environmental effects of wind turbines; perform business and site assessments for a wind turbine project, plan your wind turbine project, evaluate operation and maintenance of the turbine system, and analyze the future of wind energy.

Introduction to Wind Energy Technology

RENEWELC 10482102

Wind Systems Technician 1

3 Credits/Units

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3 Credits/Units

3 Credits/Units

2 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

Real world smart.

Allows participants to develop essential skills and attitudes for employment in the wind industry. Topics include: safety, electrical hazard, confined space, climbing practices, tool use, calibration, documentation and routine wind turbine maintenance operations.

RENEWELC 10482103

Photovoltaic Systems and the National Electric Code

Students will learn to apply the NEC rules to photovoltaic systems. Topics will include conductor sizing, overcurrent protection, grounding, maximum voltage and current calculations and other applicable rules. Students will be able to apply this knowledge to one or more photovoltaic systems.

Advanced Photovoltaic Electives

RENEWELC 10482135

Periodically opportunities will arise for unique coursework that is difficult to schedule on a regular basis. Examples of this could include large system decommissioning, foundation work, or even installations that are experimental. Because the size and scope of these courses will vary, they may range in size from 1-3 credits/units. These courses may also have pre or co-requisite classes involved. More details will be listed under the notes area of the section being offered.

RENEWELC 10482137 Photovoltaic Site Assessment

Students will learn how to conduct an assessment of a location for a photovoltaic system. They will learn the qualities of an ideal location, structural concerns, tools to use, proper documentation techniques, load analysis, energy production estimation, and concerns with existing electrical service. Students will also complete a photovoltaic site assessment as part of the course.

RENEWELC 10482138

Introduction to Photovoltaic Technology Students will learn the basic concepts of photovoltaic systems, including how photovoltaic cells produce electricity, components and types of photovoltaic systems, the process of installing a photovoltaic system and whether and where to install a photovoltaic system. Students will also analyze utility bills, energy production, cost and incentives available for photovoltaic systems.

RENEWELC 10482139 Grid-Connected Photovoltaic Design and Installation 2 Credits/Units

Students will install one or more fully operational grid connected photovoltaic systems.

Students in this course will learn the principles of photovoltaic system design for photovoltaic systems connected to the utility grid. Each student will prepare a model design. Students will learn the components of PV systems, the tools and techniques to install PV systems and the safety concerns specific to photovoltaic work. Students will install one or more fully operational grid-connected PV systems.

RENEWELC 10482140	Grid Connected Photovoltaic System Design	1 Credits/Units
Students will learn the principles of phot will prepare a model design.	ovoltaic system design for photovoltaic systems connected to the utility	grid. Each student
RENEWELC 10482141	Grid Connected Photovoltaic Systems Installation Lab	1 Credits/Units

RENEWELC 10482142 Off Grid Photovoltaic System Design 1 Credits/Units Students in this course will learn the principles of photovoltaic system design for off grid photovoltaic systems. Each student will prepare a model design.

RENEWELC 10482143	Off Grid Photo Systems Installation Lab	1 Credits/Units
Students will install one or more fully of	perational off grid photovoltaic systems.	

RENEWELC 10482149 Photovoltaic Technical Sales 1 Credits/Units Students will learn the tools and information needed to perform in a sales position for photovoltaic contractors. Students will prepare

a sales document as part of the course. **RENEWELC 10482152** Wind Systems Repair and Maintenance 2 Credits/Units Students will visit a number of area wind turbines and learn how to do system repairs and annual maintenance. Machines from 1kW

to 100kW will be covered. Work will include freestanding, guyed and tilt-up towers. This is a working class, with optional tower climbing.

RENEWELC 10482153

Wind Turbine Installation 2 Credits/Units In this eight-week class, students assemble and erect a 110-foot self-standing lattice tower with the use of an all-terrain forklift and a crane. Students will observe the pouring of the concrete foundation and begin assembling the tower while the concrete cures (28 days minimum). About 5 weeks later the tower will be lifted into place and the 35kW (Vestas V-15) wind turbine will be mounted and have the blades attached. The remaining three weeks will be spent installing the wiring, controls and instrumentation along with commissioning the turbine and getting it connected to the grid at the college's Emergency Vehicle Operator Course near Columbus, WI.?

RENEWELC 10482154

Advanced Wind Systems Electives

3 Credits/Units

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1 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

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Periodically opportunities will arise for unique coursework that is difficult to schedule on a regular basis. Examples of this could include large system decommissioning, foundation work, or even installations that are experimental. Because the size and scope of these courses will vary, they may range in size from 1-3 credits/units. These courses may also have pre or co-requisite classes involved. More details will be listed under the notes area of the section being offered.

RENEWELC 10482156 Wind Turbine Design and Construction Develop knowledge and skills in basic electricity, wood working, metal working, resin casting, and a variety of other skills. Attendees will complete at least one 7' and one 10' diameter wind turbine and have the opportunity to build a wind machine of their own. Based upon the Homebrew Wind Power text and design, and inspired by the work of Hugh Piggott. Each turbine will be fabricated from 'scratch' and tested upon class completion. An option to purchase a completed turbine may occur in each class.

RESPC 10515111 3 Credits/Units Examines the role of the Respiratory Therapist within the healthcare community. Reviews the ethical, legal, and regulatory principles that guide practice across diverse populations. Introductory patient assessment and critical thinking processes used in the development of respiratory care plans are explored. Pre-requisities: Acceptance into the Respiratory Therapy program. Corequisites: 20-806-206, General Anatomy & Physiology and 10-806-134, General Chemistry.

RESPC 10515112 Respiratory Airway Management 2 Credits/Units Focuses on adult respiratory critical care including management of mechanical ventilation and artificial airways.

RESPC 10515113 Respiratory Life Support 3 Credits/Units

Focuses on adult respiratory critical care including management of mechanical ventilation. Prerequisites: 10-515-175, 10-515-112 Corequisites: 10-515-178 & 10-515-179.

RESPC 10515171 3 Credits/Units Introduces the topics of medical gas administration and humidity and aerosol therapy. The learner will apply physics, math and patient assessment concepts to oxygen, aerosol and humidity therapy.

RESPC 10515172 3 Credits/Units Introduces therapeutic procedures including arterial puncture, bronchial hygiene, lung expansion therapy, and pulmonary rehabilitation.

RESPC 10515173 3 Credits/Units Examines basic pharmacology principles, drug dosage, and calculations. Medications for inhalation including mucolytics, bronchodilators, and anti-inflammatories. Also includes cardiac drugs, anesthetic drugs, neuromuscular blockers, and antimicrobials.

Respiratory/Cardiac Physiology 3 Credits/Units Provides the student with an in-depth knowledge of the structure and function of the respiratory and circulatory systems necessary to function as a competent Respiratory Therapist.

Introduces respiratory Therapy practice in the hospital setting. Includes the development of skills such as basic therapeutics, patient

Respiratory Disease Exploration of signs, symptoms, causes, progression, and treatment of obstructive, restrictive and infectious diseases or disorders of

RESPC 10515178 Respiratory Clinical 2 Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. This course includes the complete program competency list. At the completion of this clinical, learners must demonstrate competence in a minimum of 12 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. Prerequisites: 10-515-175. Corequisites:

10-515-176, 10-515-177, and 10-515-179.

RESPC 10515179

Respiratory Clinical 3 3 Credits/Units Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. This course includes the complete program competency list. At the completion of this clinical, learners must demonstrate competence in a minimum of 19 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. Prerequisites: 10-515-175. Corequisites:

10-515-176, 10-515-177, and 10-515-178,

RESPC 10515180

Respiratory Neo/Peds Care

3 Credits/Units

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

Respiratory Survey

Respiratory Therapeutics1

Respiratory Therapeutics 2

Respiratory Pharmacology

RESPC 10515174

RESPC 10515176

RESPC 10515175 Respiratory Clinical 1 2 Credits/Units

assessment, medical record review, safety practices, patient interaction, and communication.

the body that affect the respiratory system. Prerequisites: 10-515-175. Corequisites: 10-515-177, 10-515-178, and 10-515-179



Provides a comprehensive orientation to the field of neonatal and pediatric respiratory care to include fetal development, birth, neonatal physiology, pulmonary dynamics, abnormal cardiopulmonary conditions, diseases, noninvasive and invasive therapeutic interventions.p

RESPC 10515181

Advanced invasive and noninvasive diagnostic cardiopulmonary procedures including pulmonary function, hemodynamics and rescue medicine.

Respiratory/Cardio Diagnostics

Respiratory Clinical 4

Respiratory Clinical 5

Real Estate Law

Real Estate Brokerage

Real Estate Internship

RESPC 10515182

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modification in patient care. This course includes the complete program competency list. At the completion of this clinical, learners must demonstrate competence in a minimum of 26 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical.

RESPC 10515183

Focuses on the completion of respiratory therapy competencies and transition to employment. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in all of the required and/or simulated competencies. The instructor may identify specific competencies to be addressed during this clinical.

RESPC 10515184

Neonatal Pediatric Resuscitation (NRP) 1 Credits/Units Provides the student with the practice, theory and skills needed to provide advanced ventilation and resuscitation to infants and children.

RLEST 10194182

Designed to acquaint students with the field of real estate as well as Wisconsin real estate law. This course also meets the educational requirements for the Wisconsin Real Estate Salesperson's examination. It covers topics such as laws of agency, property ownership, real estate contracts, title issues, real estate financing, fair housing laws, landlord/tenant laws, business ethics, and various other subjects related to the real estate profession. It is particularly oriented toward Wisconsin laws.

RLEST 10194185

Designed to build on the Real Estate Law course, Real Estate Brokerage looks at real estate management including business and financing management, trust accounts, proper use of forms, agency contracts, ethical requirements, office management and transactional concerns. The course is oriented toward real estate brokerage in Wisconsin and fulfills the educational requirement for the Real Estate Broker license in Wisconsin.

RLEST 10194195

Requires work experience within an approved organization as well as under the sponsorship of someone at the management level. The real estate intern is required to complete 140 hours of supervised work. The intern will complete a final work report at the completion of the semester while the sponsor will complete a job performance evaluation. Class time concentrates on the internship experience. The intern prepares a resume and develops a job strategy as a means of preparing for full-time work upon graduation.

SHEETMTL 50432571

Tech Sheet Metal Semester 1

This course description is unavailable at this time. Please contact the center offering the course for more information.

SHEETMTL 50432572 **Tech Sheet Metal Semester 2** This course description is unavailable at this time. Please contact the center offering the course for more information.

SHEETMTL 50432573

This course description is unavailable at this time. Please contact the center offering the course for more information.

SHEETMTL 50432574

This course description is unavailable at this time. Please contact the center offering the course for more information.

SMENG 31461324

This nine-week course covers the principles of small internal combustion engines, including two-cycle and four-cycle. Design, construction, engine testing, and diagnosing are all covered. Students become familiar with the tools, machines and equipment that are used for engine repair work in the power equipment shop.

SMENG 31461325

Small Engine Rebuilding - Motorcycle, Marine & Outdoor 5 Credits/Units **Power Products Technician Program**

This nine-week course covers disassembly, repairing, re-assembly and engine break-in. Other topics covered include engine tuneup, carburetion and electrical systems as well as snowmobiles, chainsaws, sharpening and balancing of rotating elements are included.

SMENG 31461326

Electrical and Hydraulic Systems

5 Credits/Units

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Tech Sheet Metal Semester 3

Tech Sheet Metal Semester 4

Basic Two- and Four-Cycle Engines

4 Credits/Units

4 Credits/Units

5 Credits/Units



Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

4 Credits/Units

3 Credits/Units

4 Credits/Units

This nine-week course covers electrical systems in great detail. Students study the basic principles of electricity and magnetism. The proper use of meters is covered. Students learn how to service and troubleshoot charging, ignition, starting, safety interlocks and instruments. Basic hydraulic systems also are covered.

SMENG 31461327 Power Transmissions and Motorcycle, Marine and Outdoor 5 Credits/Units **Power Products**

This nine-week course covers power transmissions of all of the above equipment. Topics include transmissions, clutches, hydro transaxles, wheels, tires, belts, chains and stern drives. ATVs also are studied in detail.

SMENG 31461328

Students work on individual projects that have been approved by the instructor, such as building a motorcycle engine stand or developing advanced technical knowledge or skill in any of the motorcycle, marine or small engine service areas.

Small Engine Lab 1

Small Engine Lab 2

Small Business Development

Operations Management

Small Business Marketing

SMENG 31461329

Students continue working on individual projects that have been approved by the instructor, such as building a motorcycle engine stand or developing advanced technical knowledge or skill in any of the motorcycle, marine or small engine service areas. Pre-reqs: 1st semester core

SMLBUS 10145102

Provides an introduction to prospective small business owners to the principles involved in planning and operation. Attention is given to small business appraisal and opportunities. Emphasis will be placed on factors that contribute to a successful business operation.

SMLBUS 10145105

Small business management strategies are applied to policies and operations. Included are applications to budgeting, marketing potentials, forecasting, layout, staffing, work flow, scheduling, and general business decisions. E-commerce is also explored.

SMLBUS 10145106

Developing and refining the marketing and promotion plans for a small business. Topics for discussion include merchandise/service resources, budgeting, study of competition, market segmentation, pricing, promotion, non-media ways to get customers to come to your business, and strategic planning.

SMLBUS 10145108

class are coordinated with student employment. Employee appraisal, evaluation and harmony on the job will also be topics of

Introduction to Entrepreneurship

Field Experience

discussion. The course requires a minimum of 144 hours of employment.

SMLBUS 10145117

Dreaming of starting your own business? This course is designed to inspire and nurture the entrepreneurial spirit. Students will examine the entrepreneurial process and characteristics of successful entrepreneurs, how to identify and evaluate entrepreneurial opportunities, and the critical elements of an effective business plan -- including management, marketing, and financial data. So whether you dream of a new business, or have a plan that needs further development, this course can help you reach your goals.

SMLBUS 10145185

This course examines the general state of customer service in organizations for both internal & external customers. Explores how a business can enhance their competitive position by adopting and implementing a variety of service initiatives. Topic areas range from practicing necessary customer service skills, such as communication, listening and conflict management to discussing service strategies used by top companies.

SMLBUS 10145189

This course examines the general state of customer service in organizations for both internal and external customers. Students will explore how a business can enhance their competitive position by adopting and implementing a variety of service initiatives. Topic areas range from practicing necessary customer service skills, such as communication, listening and conflict management. Students also will create professional cover letters and resumes. Emphasis is given to the fundamentals of grammar, spelling, sentence structure and paragraph development.

SOC 10809172

3 Credits/Units Introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored.

SOC 10809197

Contemporary Amer Society

This is an interdisciplinary course covering issues that illustrate how our traditional institutions (such as family, education, media, the workplace, the economy and government) are being changed by global political, demographic, multicultural and technological trends. By exploring contemporary issues, students expand their use of critical-thinking skills.

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Introduction to Diversity Studies

Customer Service Management

Customer Relations

2 Credits/Units

3 Credits/Units

1 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units Employment in an approved occupation related to the student's future business plans is a prerequisite. Reports and discussion in

3 Credits/Units

3 Credits/Units

Effective: 2016-2017



SOC 20809202

Social Problems

This course examines the major issues confronting society: economic and political change, nationalism, racial and ethnic relations, sexism, socioeconomic class, crime and justice, health and education, and family life. It discusses causes, effects, possible solutions and future trends. This course requires student participation in reading, writing and discussion.

SOC 20809203

Intro Sociology

Introduces students to the field of Sociology. Defines and examines the concepts and realities of social structure, culture, socialization, complex organizations, class, inequality, social groups and social change. Special emphasis is given to institutions such as the family, religion, education, politics, economics and the media.

SOC 20809204

Marriage and the Family

Examines the changes in the structure, function and definition of family from a social science perspective. The social, historical, cultural and economic sources of these changes are explored along with a critical examination of what these changes have meant for children, women, men, and society as a whole, especially in recent decades. Contemporary issues and debates are explored, with an emphasis on research evidence. The goal of the course is for students to evaluate their assumptions about marriage and family as they become more informed by social science research, and, on a practical level gain knowledge and insight for navigating the challenges of intimate relationships and family life.

SOC 20809207

Criminology

Course develops a sociological framework for the study of crime. It starts by building a foundation for exploring crime—what social factors influence our definition of crime, how we measure crime, the trends and changes in crime rates and patterns, and approaches to crime control. Students will examine theories from a range of inter-disciplinary perspectives on the etiology and causes of crime and criminal behavior. Throughout the course there is an emphasis on current research, policies and practices on how we respond the crime problem. The goal of this course is to get students thinking about the nature of crime and justice, the complex sources of crime, and to engage in critical thinking on how we respond to crime. What is working? What is not working? What research can we critically examine? What are the social costs of current practices? How can we do better?

SOC 20809229

Social Movements

The Social Movements course examines social movements from a sociological perspective with an emphasis on the United States. It anaylzes what constitutes a social movement using a cross cultural as well as a cross political system approach. This course also analyzes the causes of social movements, underscoring the issues of race, class, gender, religion, ethnicity and multiculturalism in regard to legal, political and social equality. Finally, the course will evaluate prospects for social change.

SOC 20809230

Statistics for the Social Sciences

This course provides the learner with an introductory understanding of statistics for the social sciences and how statistics are applied to the social world. Learners will build skills in analytical and critical thinking through the application of quantitative knowledge to social questions. Discussion will center on problems of data collection, analysis, interpretation, and reporting. Course components will focus on measuring variables, measures of central tendencies, the utility of descriptive statistics, and introduction to inferential statistics and its predictive nature, the differences between samples and populations, and the increased capacity to read and display statistical information. Learners will develop statistical knowledge and skills through the use of software. SPSS. increasing their technological abilities.

SOC 20809240

Introduction to Latin America

Introduction to Latin America provides an interdisciplinary introduction to Latin America. Focuses are on history, politics, economics, society and culture. This course provides a broad and multi-faceted exposure to several themes in particular: historical legacies that shape Latin American life, the experience of revolution and counter-revolution, various economic development strategies, contemporary social change and cultural expression. All of these themes include specific case studies as well as a general overview.

SOC 20809251

Sociology of the Middle East and North Africa

In this age of globalization and multiculturalism, this course provides the opportunity for the learner to develop the knowledge skills process and understanding of a sociological analysis of the political, cultural, and social history of the Middle East and North Africa (MENA). It will follow a comparative approach in assessing the patterns and processes of social, political, economic, and cultural developments in various Middle Eastern and North African states and societies. The focus will be on several key issues such as ethnic and religious diversity, colonialism, culture and cultural reform, nationalism, overview of the East/West relations, the role of religion and current areas of conflict. As a sociology course, emphasis will be placed upon the interactions between the structures and institutions of the corresponding societies, their people, and those abroad. No prior background of the region will be assumed or expected. However, students enrolled in this class will be expected to follow the news related to the Middle East on a daily basis.

SOC 20809252

Race and Ethnicity in the U.S.

3 Credits/Units

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units



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MADISON AREA | TECHNICAL COLLEGE

Explores how the social constructions of race and ethnicity shape U.S. society and examines structural inequalities and majorityminority group relations. Emphasizes explanations of forms of racism, ethnic and racial prejudice and discrimination; historical background; and forms of cultural resistance and common experiences of African Americans, Indian Americans, Latinos, Asian Americans and other marginalized racial and ethnic groups. Considers employment, housing, political, legal, educational, and familial and health consequences of unequal power. Discusses current policy debates and proposed solutions to inequalities.

SOC 20809253

Sociology of Gender

Sociologically examines the importance and power of gender, particularly as it pertains to the status of women and men in society. Students explore the social construction of gender and its impact on identity, roles, relationships, and life experiences. Attention is given to the gender socialization process as well as the ways in which gender impacts romantic and family relationships, division of labor, parenthood, sexuality, crime and violence, media, employment, health, education, religion, political participation, and power. Throughout the course, students reflect upon past, present, and future gender patterns, considering the cultural reinforcement of gender norms as well as the ways in which individuals and institutions challenge them.

SOC 20809275

Sociology of Religion

This course introduces students to the sociological study of religion, including understanding the significance of religion for social structures and culture, the interaction of religion and society, and the religious dimension in secular societies.

SOC 20809277

Couple Relationships

Technology and Society

Introduces students to empirical research findings on relationship and marriage success and failure as well as to one of the most nationally recognized skills-based prevention programs for couples. Students will learn to distinguish the patterns that erode as well as protect relationships; students will gain skills and strategies that research has identified for strengthening intimate relationships.

SOC 20809291

Introduces students to the field of Science and Technology Studies (STS). Students explore the ways in which science and technology impact our everyday lives from a sociological perspective. Following an initial examination of the history of STS, scientific and technological revolutions, major schools of thought in the field of STS, and the role of science and technology in our everyday lives, students will focus on applied areas of science and technology using the life sciences and social media as case studies. Course work centers on current topics that our society is grappling with such as surveillance, body politics, medical applications, the role of the market in science and technology, and the consequences of the speed and ease of the use of technology in the twentyfirst century. Throughout the semester, students will critically reflect upon personal, community, and societal issues that arise out of science and technology through discussion and debate.

SOCSCI 20809206

Introduction to Women's Studies

Women's status and roles in contemporary U.S. society are investigated by analyzing various disciplines and institutions such as the family, law, medicine, psychology, education, religion and the media as they impact upon the socialization process and the classification of people by gender.

SOCSCI 20809210

Psychology of Men

Psychology of Women

Psychology of Men examines and analyzes ways biology, culture and society shape identity and life experiences of the American male. Included in the course are historical views, socialization, manliness, competitiveness and sports, violence and war, work and success, sexuality, health, relations with other men, women and children, and alternatives for men.

SOCSCI 20809234

Review psychological theories and research on women and gender, focusing on uniquely female experiences throughout the life cycle. We will explore the diversity of women by examining the impact of social factors such as race, ethnicity, class, and sexual orientation as they relate to sexism, gender roles, sex differences, language, emotion, motivation, relationships, sexuality, employment, victimization, parenting, and health.

SPANISH 10802102

Introductory Spanish Conversation 1

Introductory Spanish Conversation is a three-credit, non-college transfer class. At the end of the course, students will be able to carry on uncomplicated conversations about concrete, limited topics. To emphasize speaking and listening skills, the course includes substantial practice in understanding and producing the spoken language. Basic grammatical and structural concepts are introduced, and the development of vocabulary skills is highlighted. Cultural topics are also discussed.

Introductory Spanish Conversation is intended for (a) students who want an introduction to Spanish for communicative purposes and (b) students who need a one-semester introduction to the language before beginning the more intensive college-transfer Spanish courses.

SPANISH 20802211

Spanish 1 - Liberal Arts Transfer

Spanish 1 is for students beginning the study of Spanish. This course emphasizes development of basic communicative skills through practice in listening, speaking, reading and writing. Stresses vocabulary and grammar to enhance students' ability to speak and write in Spanish. Study of customs and values provides an increased awareness of the Spanish-speaking cultures. On completion students are able to participate in uncomplicated conversations on everyday topics. Some computer use is required for completing on-line homework assignments.



3 Credits/Units

3 Credits/Units

1 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

3 Credits/Units

4 Credits/Units

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Effective: 2016-2017

Real world smart.

Madison Area Technical College

SPANISH 20802212 Spanish 2 - Liberal Arts Transfer 4 Credits/Units Spanish 2 emphasizes continued development of more complex communicative skills through practice in listening, speaking, reading and writing. Vocabulary and grammar are studied to enhance students' abilities to speak and write in Spanish. Upon completion, students possess the listening, speaking, reading and writing skills necessary to handle simple, everyday survival tasks in Hispanic cultures. Some computer use is required for completing on-line homework assignments.

SPANISH 20802213 Spanish 3 - Liberal Arts Transfer

Spanish 3 enhances complex communicative skills developed during previous semesters of study. Emphasis is placed on speaking and writing in extended contexts, focusing on presentational and interpersonal communication. Everyday situations, including eating out, travel and vacations, provide students an opportunity to expand their survival skills in Hispanic cultures. Language and critical thinking skills are expanded and deepened through reading, writing and speaking about health care, the environment, job interviews/resumes and relationships. Readings of cultural and literary significance, as well as a unit on art history, provide vehicles for discussion, presentation and composition. Some computer use is required for completing on-line homework assignments.

SPANISH 20802214

Spanish 4 - Liberal Arts Transfer

This course reviews and expands upon key grammatical structures needed to communicate effectively in Spanish. It focuses on expanding vocabulary, increasing grammatical accuracy and achieving paragraph-length discourse. Using the target language, students read and discuss culturally centered texts, review and broaden grammatical knowledge, complete oral and written exercises, write compositions and make formal class presentations. Some computer use is required for completing on-line homework assignments.

SPANISH 20802215 Spanish 5 3 Credits/Units Spanish 5 focuses on developing accuracy in written communication skills, Building on their experience in Spanish 4, students study Spanish grammar at greater breadth and depth than was required in previous courses, with the ultimate objective of improving their ability to write accurately in Spanish. Students read and analyze literary excerpts as the basis for active class discussion, presentation and composition.

SPANISH 20802216 Spanish Culture & Civilization - Liberal Arts Transfer 4 Credits/Units

A course description is unavailable for this course. Please check with the center office for details.

Speech

SPANISH 20802217

Spanish for Heritage Speakers

Heritage speakers are often defined as individuals who grew up in a Spanish-speaking household and who possess a certain degree of communicative proficiency, but who have not been formally educated in Spanish. While fluent in informal, everyday conversation, heritage speakers may struggle in academic and professional settings. The areas of reading and writing usually present additional challenges. This course will provide the heritage speaker with the opportunity to further develop his/her existing Spanish language skills while learning more about his/her cultural and linguistic heritage. Students will develop strategic academic and professional vocabulary, learn to use appropriate register, read excerpts from a variety of literary genres, engage in academic and professional writing, and refine linguistic rules related to grammar, spelling, accent marks and capitalization. All the while students will be engaged in the exploration and discussion of the rich cultural Hispanic traditions both in and outside the U.S. *NOTE: There is a 20-hour service learning requirement for this course. Students who do not complete this requirement will not earn a passing grade. Prerequisite: Spanish Language background at home.

SPEECH 10801198

This course presents the basic techniques of effective public speaking and listening for students in degree or diploma programs. Students improve their oral communication skills through analysis of purposive listening, preparing and presenting informative and persuasive speeches and using the group process to discuss issues and solve problems. It emphasizes audience analysis, audiovisual techniques, speaker evaluation and group work.

SPEECH 20810202

Theory & Practice of Argumentation and Debate

This course focuses on the theory and practice of argumentation. On the theoretical level, we will seek to conceive the operations of social and personal transformation that can take place during debate. In particular, we will focus on the means by which arguments can turn on established bases of authority. These sites of commonplace meaning will not only be approached as potential supports for claims, but also as sites in which uncertainty can be created. On the practical level, we will interpret, analyze, and counter present-day arguments. We will also construct arguments of our own and test them in live debates. Finally, we wil consider the ways in which the contemporary U.S. government and mass media are actually structured, with an eye to developing pragmatic startegies for effecive advocacy.

SPEECH 20810211

Explores the possibilities offered by the full range of the human voice. Students will be challenged to create theatre in the minds of audience members through interpretation techniques. Concepts covered include selected projects in children's literature, prose, poetry, drama, and reader's theatre.

STEAM 50435530

Sf Rel Sci/Math/Bpr/Drawing

Oral Interpretation

This course description is unavailable at this time. Please contact the center offering the course for more information.



Effective: 2016-2017

4 Credits/Units

4 Credits/Units

4 Credits/Units

3 Credits/Units

3 Credits/Units

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3 Credits/Units

STEAM 50435531 This course description is unavailable a	Sf Refrig/Math Bpr/Drawing at this time. Please contact the center offering the course for more inform	4 Credits/Units nation.
STEAM 50435532 This course description is unavailable a	Hydronic Prin/Math/Bpr/Draw at this time. Please contact the center offering the course for more inform	4 Credits/Units nation.
STEAM 50435533 This course description is unavailable a	Steam Heat Prin/Math/Bpr/Draw at this time. Please contact the center offering the course for more inform	4 Credits/Units nation.
STEAM 50435534 This course description is unavailable a	Sf Digital Cntr Sys/Comptr Apl at this time. Please contact the center offering the course for more inforr	2 Credits/Units nation.
STEELIRN 50437535 This course description is unavailable a	Combined Weld for IW at this time. Please contact the center offering the course for more inforr	2 Credits/Units nation.
STEELIRN 50437536 This course description is unavailable a	Gmaw/Fcaw Welding at this time. Please contact the center offering the course for more inforr	2 Credits/Units nation.
STEELIRN 50437537 This course description is unavailable a	Gtaw (Gas Tungson Arc Welding) at this time. Please contact the center offering the course for more inforr	2 Credits/Units nation.
STEELIRN 50437570	Reinforcing Steel/Post Tensioning/Math	2 Credits/Units
I his course description is unavailable a	at this time. Please contact the center offering the course for more inforr	nation.
STEELIRN 50437571	Ornamental at this time. Please contact the center offering the course for more information at this time. Please contact the center offering the course for more information	2 Credits/Units
STEELIRN 50437571 This course description is unavailable a STEELIRN 50437703 This structural course is designed to pr safety, tools and equipment, drawings, bolting up, and making structural conne metal decking and sheeting. The cours	Ornamental	2 Credits/Units nation. 3 Credits/Units cluding history, gning structural steel, v to safely install clear span, and
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STEELIRN 50437571 This course description is unavailable a STEELIRN 50437703 This structural course is designed to pr safety, tools and equipment, drawings, bolting up, and making structural conne metal decking and sheeting. The cours amusement park structures. The stude structural drawings. SUPDEV 10196116 In this course, the learner applies the s learner will explore and demonstrate th development and communication. In ac global environment will be introduced. SUPDEV 10196136 The learner applies the skills and tools application of strategies regarding safe	Ornamental at this time. Please contact the center offering the course for more inforr Structural Steel Erection 1 ovide the Iron Worker student with training in structural steel erection inc handling materials, erecting structural steel members, plumbing and alig ections. This also will provide the Iron Worker student with training in how e will also include overviews of erecting bridges, towers, wind turbines, o nt will also learn how to use composite materials in structural erection ar Organizational Behavior kills and tools necessary to work effectively with behavior found in organ e application of theories in motivation, perception, organizational culture ddition, concepts such as diversity, decision making, conflict management Safety in the Workplace necessary to provide a safe and secure work environment. Each learner ty awareness, compliance, investigation and documentation. Other topic ow, inspections, risk analysis, workplace violence, substance abuse, firs	2 Credits/Units nation. 3 Credits/Units cluding history, gning structural steel, v to safely install clear span, and how to read 3 Credits/Units izations. Each , employee ht and managing in a 3 Credits/Units r will demonstrate the is include: safety

SUPDEV 10196169

The learner applies the skills and tools necessary to implement and maintain a diverse work environment that values change. Each learner will demonstrate the application of assessing the current extent of diversity in the workplace, analyze the effect of perceptions, attitudes, biases, and organization culture on diversity, dealing with barriers, change management strategies, process, and reactions, measuring progress and celebrating success.

SUPDEV 10196189

The learner applies the skills and tools necessary to facilitate problem solving in a team environment. Each learner will demonstrate the application of strategies regarding: the necessary roles for team effectiveness, stages of team development, team problem solving and consensus, systematic processes for problem definition, data acquisition and analysis, generating alternative solutions, choosing solutions, implementation planning and evaluation.

SUPDEV 10196191

Principles of Supervision

The learner applies the skills and tools necessary to perform the functions of a front line manager. Each learner will demonstrate the application of strategies to make the transition to a contemporary supervisory role including: operations planning and analysis, delegation, staffing, problem solving, motivation, training, leadership and performance assessment.

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Diversity & Change Management

Team Building & Problem Solving

AREA | TECHNICAL COLLEGE

MADISON

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

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SUPDEV 10196192 Foundations Of Quality 3 Credits/Units The learner applies the skills and tools necessary to implement and maintain a continuous improvement environment. Each learner will demonstrate the application of a personal philosophy of quality, identify stakeholder relationships, customer expectations, systems focus, use of appropriate models and tools, managing improvement projects and measuring effectiveness of continuous improvement activities.

Surgical Technologist Functional Microbiology

SURGT 31512317

Introduces general classification, structure and physiology of microorganisms. Students learn the relationship between microorganisms and the human host as well as microbes in the hospital environment. Examines the study of the disease process, transmission of disease and methods of controlling microbial growth. Reserved for Surgical Technologist waiting list students until open registration. Pre/Co reguisites: Medical Terminology and General A&P, or A&P 1 and 2. Computer Skills are highly recommended.

SURGT 31512327

Provides the foundational knowledge of infection control and asepsis. Legal and ethical issues encountered in the healthcare environment are explored. Simulated laboratory practice enables the learner to develop beginning technical skills.

ST: Introduction

ST: Fundamentals 1

ST: Fundamentals 2

ST: Surgical Procedures

ST: Clinical 1

SURGT 31512328

Includes the basic clinical skills needed by the Surgical Technologist in the scrub role. Learners develop skills in identifying basic instrumentation, supplies, drains, catheters, dressings and sponges. Includes practice experience in creating a sterile field, draping, passing instruments and supplies, performing counts and preparing supplies.

SURGT 31512329

Builds upon and reinforces the role of the Surgical Technologist as a member of the operating room team. Discusses care of the patient before, during and after surgery with emphasis on surgical wounds, wound closure materials, and vital signs. Includes lecture and lab experiences.

SURGT 31512330

Apply basic surgical theories, principles, and procedural techniques in the operating room. Students begin to function as team members under the guidance of the instructor and authorized clinical personnel. Surgical rotation case requirements are documented.

SURGT 31512331

Provides the foundational knowledge of surgical core and specialty procedures. Examines the pathophysiology, diagnostic interventions and surgical interventions for a variety of surgical procedures. Incorporates integration of basic health sciences and technical knowledge to complete a plan of action for a surgical procedure.

SURGT 31512332

Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures. Surgical rotation case requirements are documented

SURGT 31512334

Enhances the student's technical experience and employee skills. Serves as a transition between student and employee. Application of advanced skills for the entry-level Surgical Technologies in the clincal setting.

T&D 50439589 Tech T & D Sem 7 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

2 Credits/Units T&D 50439591 Tech T & D Sem 8 This course description is unavailable at this time. Please contact the center offering the course for more information.

Tech T & D Sem 1 T&D 50439593 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

T&D 50439594 2 Credits/Units Tech T & D Sem 2 This course description is unavailable at this time. Please contact the center offering the course for more information.

T&D 50439596 Tech T & D Sem 3 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

T&D 50439597 Tech T & D Sem 4 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

T&D 50439598

MADISON AREA | TECHNICAL COLLEGE Tech T & D Sem 5

2 Credits/Units

Effective: 2016-2017

1 Credits/Units

4 Credits/Units

4 Credits/Units

2 Credits/Units

3 Credits/Units

4 Credits/Units

4 Credits/Units

4 Credits/Units

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ST: Clinical 2

- ST: Clinical 3

T&D 50439599

This course description is unavailable at this time. Please contact the center offering the course for more information.

Tech T & D Sem 6 This course description is unavailable at this time. Please contact the center offering the course for more information. TEL&CBL 50451590 Voice Data Video Install Sem 6 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information. TEL&CBL 50451591 Voice Data Video Install Sem 1 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information. TEL&CBL 50451592 Voice Data Video Install Sem 2 This course description is unavailable at this time. Please contact the center offering the course for more information. TEL&CBL 50451593 Voice Data Video Install Sem 3 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information. TEL&CBL 50451594 Voice Data Video Install Sem 4 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information. TEL&CBL 50451595 Voice Data Video Install Sem 5 2 Credits/Units This course description is unavailable at this time. Please contact the center offering the course for more information.

THERMASS 10537136 Musculoskeletal Anatomy for the Massage Therapist 4 Credits/Units This course introduces students to the anatomy and function of the skeletal and muscular systems of the body. Students learn the names, locations, insertion points, and actions of many of the muscles of the human anatomy. Furthermore, students apply what they learn and develop the essential palpation skills to identify the bones and muscles that comprise the musculoskeletal system. Students also acquire necessary skills for practical range of motion movements.

THERMASS 10537138 Kinesiology for the Massage Therapist Building upon foundational knowledge from musculoskeletal anatomy, students deepen their understanding with an emphasis on muscle groups used to perform specific actions. Furthermore, students directly apply this knowledge through the practice of ROM, postural and gait assessments to identify muscles involved in specific injuries. Finally, students learn how to integrate assessment techniques into a treatment plan for a more comprehensive approach to patient care.

THERMASS 10537139 Pathology and Medical Terminology for the Massage Therapist 3 Credits/Units In this course, students learn the types of diseases that affect each of the major body systems and more specifically the signs and symptoms of selected pathologies and disorders that could prove to be a contraindication to massage therapy. Students will also learn the benefits of an integrative and palliative approach to manage chronic conditions and how to approach treatment planning with this in mind. Students will also gain a foundational understanding of medical terminology, a basic understanding of pharmacology and the possible interactions between medications and massage.

THERMASS 31537340

Introduces students to the field of touch therapies and provides students with basic instruction in therapeutic massage theory and technique. Topics covered include: (1) the development of the massage professional; (2) the therapeutic relationship; (3) the history of massage; (4) educational and legal requirements; (5) professional standards and ethics; (6) sanitation and safety procedures; (7) proper draping techniques; (8) proper body mechanics; (9) massage session preparation; (10) Swedish massage techniques; and (11) chair Massage. Many learning activities support students to develop mindfulness skills and increased body awareness.

THERMASS 31537342

Students continue to build upon conceptual framework as established in Therapeutic Massage 1. Topics covered include: (1) research literacy; (2) wellness concepts and stress reduction methods; (3) benefits and effects for therapeutic massage; (4) indications and contraindications to massage therapy; (5) endangerment sites; (6) consultation and record keeping; (7) the development of the massage professional; (8) full body therapeutic massage techniques; (9) proper draping techniques; and (10) proper body mechanics.

THERMASS 31537344

Specialized Techniques for Therapeutic Massage

In this course, students acquire more in-depth treatment planning, documentation and time management skills to prepare for their clinical experience. Students also learn how to adapt therapeutic and stress reduction massage techniques to clients with special needs including: pregnant clients, the elderly, oncology patients and individuals with particular health challenges. Students learn clinical approaches to therapeutic massage such as trigger point therapy and sports massage and explore spa therapies such as hydrotherapy, hot stone and aromatherapy massage. Students also gain a foundational understanding of eastern bodywork theory and technique and examine a variety of modalities to emphasize on career exploration.

THERMASS 31537346

Therapeutic Massage Clinic and Business Practices

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4 Credits/Units

Real world smart.

4 Credits/Units

4 Credits/Units

2 Credits/Units

4 Credits/Units

Effective: 2016-2017

2 Credits/Units

2 Credits/Units

Therapeutic Massage 1

Therapeutic Massage 2

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Includes projects dealing with typographic and pictorial elements. Projects include single page layouts, mailer design and poster

VICOM 10206107 Presentation Design 2 Credits/Units Emphasizes presentation design and graphics for projected media including design and use of PowerPoint. Design techniques for various types of data are included.

2 Credits/Units

Intro to Electronic Design 2 Credits/Units

Introduction to 3D 3 Credits/Units Learners use a range of 3D modeling programs to design and problem solve in three-dimensional space. With an emphasis on previsualization, sketching and planning precedes construction of any 3D models. Subjects include animated text, basic modeling, lighting, camera layers, compositing, and rendering.

Digital Media for Photographers 3 Credits/Units This course will explore the different kinds of digital media available to provide the photography student with additional tools and

VICOM 10206125 Instructional Media Systems 3 Credits/Units

Motion Graphics 3 Credits/Units This is an introductory course in the creation of animation for video and web. Students will use After Effects to integrate typography, images, movie clips, and audio files. Asset creation, file management, the timeline, particles, 3D, basic compositing, and rendering will be covered in detail.

Video Production VICOM 10206130 The student will become familiar with basic video production techniques for studio and fieldwork. Learning the basics of camera techniques, studio and field experiences, live studio recording and video team productions will be covered. In addition, the student will learn digital editing software to produce finished video projects, such as educational, promotional and service videos.

VICOM 10206131 This is an introductory sound production course in which students will learn to create clean, consistent, and intelligible audio recordings within a project driven curriculum. Students will learn sound principles, critical listening skills, and apply digital recording, editing, and mixing techniques to industry standards.

VICOM 10206133 Interface Design This course introduces students to the planning process of user interface design for multimedia devices. Topics include interactive relationships, interface layouts, color compositions for the screen, site architectures, and web planning through wireframes for both desktop and mobile devices.

VICOM 10206135 3 Credits/Units Students are trained in the design, integration and production of interactive multimedia applications. This course is an introduction to Flash - both as a 2D animation tool and an application to build dynamic content. It includes a project driven curriculum incorporating various media types and an introduction to ActionScript 3.0.

VICOM 10206140

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Portfolio Preparation - Visual Communication Program

Effective: 2016-2017

3 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

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2 Credits/Units

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design, brochures, newsletters and letterhead and logo designs.

This course provides students with opportunities for synthesis and refinement of their massage techniques and treatment planning skills applied to a diverse clientele, within a professional clinic setting. The clinic provides students with valuable hands-on training in the following massage business practices: appointment scheduling, record keeping, customer service and professional communication. Most importantly, students learn to create a restful, relaxing atmosphere for clients. In the business portion of the class, students explore career opportunities, examine Wisconsin's requirements for licensure and prepare for the national and state exams. Students must provide proof of certification CPR before beginning clinic.

VICOM 10206105

VICOM 10206108 **Visual Storytelling Techniques**

Communication Design

This course serves as an introduction to the creative process - through drawing techniques, concept development, storyboarding and the principles of design. Students work wth a blend of traditional and digital media.

VICOM 10206109

Provides students with a working knowledge of the technical part of digital photography workflow, including the basic principles of working with Adobe Photoshop.

VICOM 10206110

VICOM 10206115

skills. The student will learn basic video camera techniques, video editing, sound capturing, DVD preparation and other creative software programs. This course is meant to prepare photo students for potential business applications that integrate sound, images and video.

This advanced course serves as a continuation of Multimedia Presentation. Media integration and various delivery types are addressed with an emphasis on instructional use. Concepts include identifying a target demographic, learner styles, designing interactivity, and planning non-linear projects.

VICOM 10206129

Sound Production Techniques

Multi-Media Presentations

Students work to prepare a sample portfolio of their work for prospective employers. Students are supervised and assisted in the choice of samples, number of samples and design of portfolio. Lectures are given on job interviewing and job markets. Departmental approval of a finished portfolio is required for graduation.

VICOM 10206142

Digital Video Production and Editing is an advanced course in documentary, short film and motion graphics production. Building on the skills learned in Video Production 1. This course emphasizes advanced editing and video graphics.

Digital Video Production and Editing

Digital Story Telling

VICOM 10206143

In this course the student will write and produce a quality digital documentary and post it on the Internet. Curriculum includes: different aspects of Social Media as it pertains to digital media, script/story writing, video camera handling, in-the-field video techniques, video capturing, digital video editing and audio enhancement, video exporting and appropriate compressions and uploading compressed video to the internet.

VICOM 10206147

Introduction to DSLR Video Production

The student will become familiar with shooting video on a DSLR camera and how shooting video differs from still photography. During this introductory course, the students will learn to shoot, capture and digitally edit their video to produce a final video project.

VICOM 10206148 2 Credits/Units This course reviews commonly used techniques for video production in the studio or on location. Students will acquire specific skills in these areas: Appropriate use of LED and Tungsten fixtures; dynamics of hard and soft light; lighting terminology; color temperature of light; lighting for shape and texture; managing electrical power for lighting and operation of professional lighting equipment in the studio. Exercises will challenge students to create images in typical production situations including single and multi-person interviews, product shots, dramatic scenes and live events. Students will also learn how the director of photography/lighting works with the video director, art director and production crew to achieve the communication objectives of a given project.

VICOM 10206160

Business and the Visual Arts

An introduction and review to small business practices specific to operation of a small visual arts business. Course will review areas such as business setup, legal organization, pricing, time management, timekeeping, bidding, management of subcontractors and billing. This course will teach best industry practices in all of those areas and how to operate a small freelance business.

VICOM 10206161

Production Management

Advanced Interactive Media

Advanced Media

In this introductory course, the learner develops a better understanding of the media production process - from brainstorming to submitting a finished proposal. Topics include planning, task analysis, project scope, and time management tools. Learning styles, group dynamics, and multiple intelligences are also explored.

VICOM 10206180

Learners use typography, illustration, compositing, and animation to complete a wide range of projects. Photoshop and Illustrator are explored in greater detail, leading to a brief introduction of After Effects. Emphasis is on design strategies, workflow, and delivery methods.

VICOM 10206190

Takes the student through the basics of two-dimensional animation and interactivity for the web. Software applications, such as Macromedia Flash, are used to create interactive webpages. Techniques in 2D animation creation, scripting, design concepts, site organization, file optimization and uploading, and working with sound files are covered.

WELD 10442126

Metal Repair Techniques This course covers safety, layout and measurement, grinding, drill press the tathe operation, filing, threading, properties of metals, oxy-acetylene welding, brazing and cutting, and SMAW, GMAW, GTAW and FCAW.

WELD 31442312

Oxy Fuel Welding and Thermal Cutting Perform manual and semi-automatic cutting and gouging using oxy-fuel and plasma arc cutting processes. Also, oxy-fuel and plasma cutting safety and proper handling of cylinders is covered. Applications will be to English and metric dimension.

WELD 31442314

Emphasizes welding theory, safe use of welding equipment, hand and power tools, oxy-fuel and plasma arc cutting, AWS joint, weld procedures, and defects and their causes. Electrical applications, effects of welding machine power sources, electrode selection and welding symbols will also be covered.

WELD 31442315 Students in this course will develop manipulative skills on all types of joints in the flat position using shielded metal arc welding

Gas Tungsten Arc Welding 1 (GTAW/TIG)

2 Credits/Units

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WELD 31442318

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Basic Arc (SMAW)

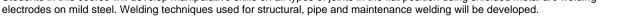
Arc Welding Theory

2 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units



2 Credits/Units

3 Credits/Units

3 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

3 Credits/Units

Lighting Techniques for Video Production

Emphasis is placed on gas tungsten arc welding (TIG) techniques of stainless steel. Development of skills and techniques on all types of joints in flat and horizontal positions. Aluminum and steel techniques may also be covered.

WELD 31442320

Welding Occupational Development

Applications of welding terminology, use of forms, contracting, professional ethics and employment relations are studied. Specific topics germane to the welding field in decision-making, responsibility and preparation for the welding career are covered.

WELD 31442321

Arc Welding (SMAW) Vertical

Students develop manipulative skills on all types of joints in the vertical up and down positions, using E7018 & E6010 shielded metal arc welding electrodes on mild steel. Students will also develop welding techniques used for fillet and groove weld competencies to AWS D1.1 structural steel welding code.

WELD 31442322 **Advanced Welding Techniques**

Develops manipulative skills on all types of joints in the overhead and/or pipe positions using E7018 & E6010 shielded metal arc welding electrodes on mild steel. Develop welding techniques used for fillet and groove weld competencies to AWS D1.1 structural steel welding code. Course also includes air carbon arc gouging (ACC), repairs, and other advanced welding processes and applications for related trades.

WELD 31442323

WELD 31442326

Basic Gas Metal Arc Welding (GMAW/MIG) Students develop manipulative skills on all types of joints in the flat, horizontal and vertical up and down position using short circuiting transfer. Students will perform gas metal arc welding techniques using 1/8" to 1/2" structural fabricated parts, as per AWS code standards. Emphasis is placed on operating gas metal arc welding equipment in a safe manner and determining machine setup for metal thickness, wire size and speed.

Flux Cored & Advanced Gas Metal Arc Welding (FCAW/GMAW) 2 Credits/Units

Continuation of development of skills and techniques on all types of joints in the flat, horizontal and vertical up and down positions, using short circuiting and spray arc transfer. Students will also learn flux-cored gas shielding and self shielding welding techniques. Mild steel, stainless steel and aluminum (1/16" to 1" thickness) are the metals used in welding joint assemblies, as per AWS code standards.

WELD 31442328

Gas Tungsten Arc Welding 2 (GTAW/TIG)

Students develop manipulative skills on all types of joints in the flat, horizontal, vertical, over head and pipe positions. Gas tungsten arc welding of stainless, aluminum, and steel welding techniques will be covered using 1/8" to 1/32" (11 ga to 20 ga) structural fabricated parts, pipe, repair welding and for other related trades, as per AWS and ASME welding code standards.

WELD 31442332

Oxy-Fuel Cutting 1

The Oxy-Fuel Cutting 1 course will introduce the students to manual cutting using a handheld torch. The students will also be introduced to the plasma cutting process. Oxy-fuel and plasma cutting safety with proper handling of cylinders is covered.

WELD 31442390

Fundamentals of Metallurgy

Introduction to metallurgy with emphasis on applications, selection, identification methods and alloy influences. Properties are studied utilizing testing, micro-structure interpretation and heat treatment processes. Tool steels, weld heat effects, failure analysis as well as machinability variations in cast iron, alloy steels and non-ferrous materials are covered in detail.

WELD 32442313

Related Welding

A lecture/hands-on course; students learn basic welding processes, equipment operations and safety procedurs. Emphasizes welding procedures and practices commonly used in the machine tool industry.



Effective: 2016-2017

2 Credits/Units

1 Credits/Units

2 Credits/Units

2 Credits/Units

2 Credits/Units

1 Credits/Units

1 Credits/Units