NORTH CENTRAL STATE COLLEGE

Industrial Technology-Electrical Maintenance 2014-2015

FALL				YEAR ONE
Complete	Course Number	Course Title	Prerequisites	Credits
	EMMT 1010	Industrial Electricity		3
	EMMT 1030	OSHA Safety Regulations		2
	EMMT 1050	Fund. of Fluid Power Systems		3
	ENGL 1010	English Composition I	WRIT 0090 and READ 0080 *	3
	MATH 1030	Variable Relationships: Algebra and Graphing	MATH0074 (minimum grade of C-) or COMPASS Algebra score of ≥31 or ACT score of ≥21	3
	MFGT 1010	Blueprint Reading		2
			Semester Credit Hours	**16**

SPRING				YEAR ONE
Complete	Course Number	Course Title	Prerequisites	Credits
	ENGR 1010	Introduction to Engineering		2
	ELET 1710	Intro to Robotics		2
	EMMT 1020	Mechanical Systems		2
	EMMT 1100	Power Distribution	EMMT 1010	2
	EMMT 1540	Ladder Diagrams	EMMT 1010	2
	ENGL 1030	English Composition II	ENGL 1010 (minimum grade of C-)	3
	_____	Technical Elective		2-3
			Semester Credit Hours	**15-16**

FALL				YEAR TWO
Complete	Course Number	Course Title	Prerequisites	Credits
	EMMT 2300	The National Electric Code	ELET 2150, EMMT 1100	2
	EMMT 2100	Advanced Fluid Power Systems	EMMT 1050	3
	ELET 2240	PLCs	EMMT 1540	3
	_____	Technical Elective		2-3
	PHYS 1010	Introduction to Physics	MATH 1050 (minimum grade of C-) or MATH 0074 (minimum grade of C-)	3
	_____	Social Science/Humanities Elective		3
			Semester Credit Hours	**16-17**

SPRING				YEAR TWO
Complete	Course Number	Course Title	Prerequisites	Credits
	EMMT 2250	Advanced PLCs	ELET 2240	2
	ELET 2930	Capstone Project Class	ELET 2240, ELET 2450, ELET 2570	2
	ELET 2100	AC/DC Drives		3
	ELET 2150	Motor Controls	ELET 1520c	3
	COMM 1010	Speech		3
	_____	Technical Elective		2-3
	_____	Social Science/Humanities Elective		3
			Semester Credit Hours	**18-19**
			TOTAL SEMESTER HOURS	**65-68**

c = Can be concurrent m = Must be concurrent

TECHNICAL ELECTIVES (more on following page)				
Complete	Course Number	Course Title	Prerequisites	Credits
Concentration in Robotics and Automation				
	EMMT 2710	Robot Control Systems	EMMT 2250c, ELET 2100	3
	MFGT 1110	Manufacturing Processes		3
	MECT 1300	Welding and Welding Equipment		2
Concentration in Electrical Maintenance				
	EMMT 2400	Control Processes	EMMT 2250c, EMMT 2300c	3
	EMMT 2500	Industrial Networks	EMMT 2250c	3
	MECT 1300	Welding and Welding Equipment		2

TECHNICAL ELECTIVES (continued)

Concentration in Computer Numerical Control (CNC)				
	MFGT 1110	Manufacturing Processes		3
	MFGT 1640	Computer Aided Manufacturing	MFGT 1110, at MATH 1050 level (ACT Math score ≥21 or COMPASS Algebra ≥31)	2
	MFGT 2640	Computer Aided Manufacturing II	MFGT 1640	2
Concentration in Alternative Energy				
	ENGR 1200	Fund. of Alternative Energy		3
	ENGR 1220	Solar Power - Thermal Energy	ELET 2240, EMMT 1050	2
	ENGR 1240	Solar Power - Photovoltaic Energy	EMMT 2300	3

HUMANITIES ELECTIVES

Complete	Course Number	Course Title	Prerequisites	Credits
	ARTS 1030	Art Appreciation		3
	HIST 1010	American Culture & History to 1877		3
	HIST 1030	American Culture & History from 1877		3
	HUMA 1010	Introduction to Humanities	READ 0080 ^	3
	HUMA 1030	Leadership & the Classics		3
	HUMA 2999	Special Topics in Humanities		3
	MUSC 1010	Music Appreciation		3
	PHIL 1010	Western Philosophy		3
	PHIL 1030	Philosophy of Religion		3
	PHIL 1050	American Philosophy		3
	PHIL 1070	Science, Art & Literature		3
	PHIL 1090	The History of the Future		3
	PHIL 1110	Ethics		3
	PHIL 1130	Philosophy & Science		3
	PHIL 1170	Eastern Philosophy		3
	PHIL 2999	Special Topics in Philosophy		3
	THEA 1010	Intro To Theatre		3

SOCIAL SCIENCES ELECTIVES

Complete	Course Number	Course Title	Prerequisites	Credits
	COMM 2010	Group Communication		3
	COMM 2030	Interpersonal Communication		3
	COMM 2250	Interviewing		3
	COMM 2999	Special Topics in Communication	TBD	1 to 6
	POLT 1010	American Politics and Issues		3
	PSYC 1010	Introduction to Psychology		3
	PSYC 1030	Personal Adjustment		3
	PSYC 1070	Intro to Women's Studies		3
	PSYC 1090	Death, Grief, & Recovery	PSYC 1010	3
	PSYC 2010	Human Growth & Development	PSYC 1010	3
	PSYC 2030	Child Psychology	PSYC 1010	3
	PSYC 2050	Abnormal Psychology	PSYC 1010	3
	PSYC 2070	Human Sexuality	PSYC 1010	3
	PSYC 2090	Social Psychology	PSYC 1010	3
	PSYC 2100	Personality Theory	PSYC 1010	3
	PSYC 2130	Industrial/Organizational Psych	PSYC 1010	3
	PSYC 2150	Educational Psychology	PSYC 1010	3
	PSYC 2170	Forensic Psychology	PSYC 1010	3
	PSYC 2999	Special Topics in Psychology	TBD	1 to 6
	SOCY 1010	Introduction to Sociology		3
	SOCY 2010	Cultural Diversity and Racism	SOCY 1010	3
	SOCY 2030	Marriage and Family	SOCY 1010	3
	SOCY 2999	Special Topics in Sociology	TBD	1 to 6

c = Can be concurrent m = Must be concurrent

* COMPASS Writing ≥81 or 69-80 plus eWrite of 6 or ACT English ≥22 or 18-21 plus eWrite of 6 or WRIT 0090 **and** COMPASS Reading ≥80 or READ 0080

** Mandatory Math Placement - All incoming students will be required to take the COMPASS placement test and based on their COMPASS scores, students will be placed in appropriate mathematics courses. Successful completion (C- or better) of any math course is required in order to advance to the next higher level math course.

~ Prior to graduation, all students entering after Summer 2008, must receive credit for MATH 0074 Introduction to Algebra, or any math course above MATH 0074 or a COMPASS Algebra score of ≥31, or an ACT Math score ≥21.

^ Placement in WRIT 0090 or higher; students placed in READ 0080 cannot enroll in HUMA1010 until they have completed their reading course.

The College strongly recommends that students be covered by hospitalization insurance, which can be purchased through a private carrier. To obtain a brochure regarding insurance, contact the Student Success Center. (Rm 103 Kee Hall) or call toll free 888-755-4899, ext. 4761 or locally 419-755-4761.

Beginning Academic Year 14/15 FYEX 0050 SUCCESS! is required for all students new to North Central State College. Placement in the course is determined at the time of study skills assessment testing.