

Name of Student \_\_\_\_\_

Name of Advisor \_\_\_\_\_

**NORTH CENTRAL STATE COLLEGE****CURRICULUM WORKSHEET****MECHATRONICS**

This Degree will include four stackable certificates L1-L4

**2009-2010**

Completion	Course Num	Course Title	Prerequisites	Cert Level	Cr Hrs	Qtr Offered-Day	Qtr Offered - Eve
<b>FIRST YEAR</b>							
		<b>Fall Quarter I</b>					
_____	MTH 121	Technical Mathematics I	~		4	F	F
_____	ENG 101	Basic Composition or ENG102	**		3	F W Sp Su	F W Sp Su
_____	MEC 115	Fund of Engineering Design		<b>L1C</b>	<b>3</b>	<b>F</b>	<b>F W</b>
_____	MEC 111	Machining Processes		<b>L1C</b>	<b>4</b>	<b>F W Sp</b>	<b>F W Sp</b>
_____	FYE 101	Orientation to College or FYE 161			1	F,W,Sp,Su	F,W,Sp,Su
_____	ENR 101	Intro to Engineering			4	F,W,Sp	F,W,Sp
		<b>Quarter Credit Hours</b>			<b>19</b>		
		<b>Winter Quarter I</b>					
_____	MTH 122	Technical Mathematics II	MTH 121		4	o	o
_____	ENG 114	Composition & Literature	ENG 101/102		3	F W Sp	W Sp
_____	DRD 215	Computer Aided Design I	MEC 115	<b>L1C</b>	4	W	W
_____	_____	Humanities Elective	(see back of sheet)		3		
_____	PHY 111	College Physics I			4	W	W
		<b>Quarter Credit Hours</b>			<b>18</b>		
		<b>Spring Quarter I</b>					
_____	MTH 123	Technical Mathematics III	MTH 122 or 142 & PHY 111		4	o	o
_____	ENG 201	Advanced Composition	ENG 114		3	F W Sp Su	F W Sp Su
_____	MEC 233	Statics	MTH 122 or 142 & PHY 111	<b>L2C</b>	4	Sp	Sp
_____	ELE 171	Intro to Robotics	ENR 101	<b>L1C</b>	3	Sp	Sp
_____	PHY 112	College Physics II	PHY 111		4	Sp	Sp
		<b>Quarter Credit Hours</b>			<b>18</b>		
<b>SECOND YEAR</b>							
		<b>Fall Quarter II</b>					
_____	MEC 244	Strength of Materials	MEC 233	<b>L2C</b>	4	F	F
_____	CHE 100	Introduction to Chemistry Or CHE 110 Chemistry	MTH 100/102/103 or HS Algebra HS Chemistry		4	F Sp Su	W
_____	ELE 151	DC Electricity	Concurrent with Mth 121 or 141	<b>L2C</b>	5	F	F
_____	MEC 223	Engineering Materials		<b>L2C</b>	4	F	F
_____	SPE 101	Speech			3	F W Sp Su	F W Sp Su
		<b>Quarter Credit Hours</b>			<b>20</b>		
		<b>Winter Quarter II</b>					
_____	ENR 120	Fundamentals of Alternative Energy	MEC 175 & MEC 244	<b>L3C</b>	3	W	W
_____	MEC 291	Mech. Design Project I	ELE 151, Can be concurrent with Mth 122 or 142	<b>L3C</b>	2	W	W
_____	ELE 152	AC Electricity	ELE 151	<b>L3C</b>	5	W	W
_____	ELE 153	Digital Principles	ENR 101	<b>L3C</b>	4	W	W
_____	ELE 224	Programmable Logic Controllers I		<b>L4C</b>	4	W	W
		<b>Quarter Credit Hours</b>			<b>18</b>		
		<b>Spring Quarter II</b>					
_____	MEC 175	Hydraulics & Pneumatics	MTH 121 or 141	<b>L4C</b>	4	Sp	F Sp
_____	MEC 292	Mech. Design Project II	MEC 175 & MEC 244	<b>L4C</b>	2	W	W
_____	_____	Social Science Elective	(see back of sheet)		3		
_____	_____	Humanities/Social Science Elective	(see back of sheet)		3		
_____	ELE 245	Electronics	ELE 152	<b>L4C</b>	5	F	F
		<b>Quarter Credit Hours</b>			<b>17</b>		

**Total Credit Hours - Program****110**

Completion	Course Num	Course Title	Prerequisites	Cr Hrs	Qtr Offered	Qtr Offered - Eve
<b>HUMANITIES/SOCIAL SCIENCE ELECTIVES (Total of 3 courses)</b>						
<b><i>Humanities (select at least one)</i></b>						
_____	HST 121	US History to 1815		3	F	F
_____	HST 122	US History from 1815 to 1900		3	W	W
_____	HST 123	US History from 1900 to Present		3	Sp	Sp
_____	HUM 110	Intro. to the Humanities		3	F,W,Sp	F,W,Sp,Su
_____	HUM 150	Leadership & the Classics		3	Sp	
_____	HUM 199	Humanities Elective	Used for transfer credit purposes only			
_____	HUM 290	Special Topics in Humanities		3	o	o
_____	PHI 120	Great Ideas in Western Civilization		3	F,W,Sp	F,Sp
_____	PHI 140	Contemporary Ethical Issues		3	F,W	o
_____	PHI 170	Science, Art & Literature		3	F,Sp	o
_____	PHI 180	Philosophy of Technology		3	F, W, S	o
_____	PHI 190	History of the Future		3	Sp	o
_____	PHI 290	Special Topics in Philosophy		3	o	
<b><i>Social Sciences (select at least one)</i></b>						
_____	ECN 101	Economics		4	F,W,Sp	F,Sp,Su
_____	POL 101	American Politics & Issues		3	F,W,Sp	o
_____	PSY 105	Personal Adjustment		4	o	o
_____	PSY 110	Intro. to Psychology I		3	F,W,Sp	F,W,Sp,Su
_____	PSY 111	Intro. to Psychology II	PSY 110	3	o	o
_____	PSY 115	Introduction to Women's Studies		3	W	W
_____	PSY 135	Aging in America		3	o	W
_____	PSY 170	Death, Grief & Recovery		4	o	o
_____	PSY 230	Human Growth & Development	PSY 110	5	F,W,Sp	F,W,Sp,Su
_____	PSY 250	Abnormal Psychology	Refer to the course catalog	4	Sp,Su	Sp,Su
_____	PSY 260	Human Sexuality	PSY 110	4	F, W, S	Sp
_____	PSY 290	Special Topics in Psychology		3	o	o
_____	SOC 101	Intro. to Sociology		3	F,W,Sp	F,W,Sp,Su
_____	SOC 110	Human Relations		3	F,W,Sp	F,W,Sp,Su
_____	SOC 120	Cultural Diversity & Racism		3	Sp,Su	W
_____	SOC 290	Special Topics in Sociology		3	o	o
_____	SSC 199	Social Science Elective	Used for transfer credit purposes only			
_____	SSC 290	Special Topics in Social Sciences		3	o	o

Revised for July 2009

F = Fall W= Winter Sp = Spring Su = Summer

o = Offered based on need @ = Offered every odd year # = Offered every even year n/a = Not available c = Can be concurrent

M = Must be concurrent

\* = CIS Assessment or CIS 190 &amp; AIT 100

\*\* = Placement Exam &amp; Completion of any required RDG/WRT coursework.

\*\*\* = ACT English sub-score of 22 or higher or Compass writing score of 90 or higher.

\*\*\*\* = 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 MTH 103 - Introduction to Algebra, or any math course above

^ = Choose three of the four courses: CIS 121,122,123 or 125 for specified technologies

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 Development Office of North Central State College (Rm 103 Kee Hall) or call toll free 888-755-4899, ext. 4761 or locally 755-4761.