

# NORTH CENTRAL STATE COLLEGE

## Mechanical Engineering Technology 2019-2020

Preparatory Courses					
Complete	Course Number	Course Title			
	<b>FYEX 0070*</b>	College and Career Success			
	<b>ENGL 0040*</b>	Integrated Reading and Writing			
	<b>MATH 0065; 0072; 0073; 0084; STAT 0086*</b>	Developmental Math courses			
FALL				YEAR ONE	
Complete	Term	Course Number	Course Title	Prerequisites	Credits
		<b>MATH 1110 ^</b>	College Algebra	MATH 0084 *	4
		<b>ENGL 1010 ^</b>	English Composition I	ENGL 0040 *	3
		ENGR 1010	Introduction to Engineering		2
		MECT 1150	Fundamentals of Engineering Design		2
		MFGT 1110	Manufacturing Processes		3
		<b>^ Milestone course</b>		<b>Semester Credit Hours</b>	<b>14</b>

SPRING						YEAR ONE	
Complete	Term	Course Number	Course Title	Prerequisites	Credits		
		CHEM 1030	Chemistry	CHEM1010 or High School Chemistry	3		
		MATH 1130	Trigonometry	MATH 1110 (minimum grade of C-)	4		
		PHYS 1110	General Physics I	MATH 1130c (minimum grade of C-)	4		
		MECT 1750	Hydraulics and Pneumatics		3		
		ENRD 2150	Computer Aided Design I		3		
		MECT 1910	Introduction to Design Project	ENGR1010	1		
		<b>^ Milestone course</b>		<b>Semester Credit Hours</b>	<b>18</b>		

FALL						YEAR TWO	
Complete	Term	Course Number	Course Title	Prerequisites	Credits		
		ELET 1510	DC Electricity		3		
		PHYS 1130	General Physics II	PHYS 1110 (minimum grade of C-)	4		
		<b>MECT 2330 ^</b>	Statics	MATH 1130, PHYS 1110c	3		
		PHIL 1110	Ethics		3		
		MECT 2230	Engineering Materials		3		
		MECT 2905	Design Project I	MECT1750, MECT1910	1		
		<b>^ Milestone course</b>		<b>Semester Credit Hours</b>	<b>17</b>		

SPRING						YEAR TWO	
Complete	Term	Course Number	Course Title	Prerequisites	Credits		
		<b>ENGL 1030 ^</b>	English Composition II	ENGL 1010 (minimum grade of C-)	3		
		<b>ENGR 2010</b>	Engineering Programming, Robotics , and PLC	ENGR1010 or ENGR1910	3		
		SOCY 2010	Cultural Diversity and Racism		3		
		MECT 2910	Mechanical Design Project	MECT 2905 or MECT 2440 (c)	1		
		MECT 2440	Strength of Materials	MECT 2330	3		
		ENGR 2850	Engineering Economics & Organization	MATH 1130	3		
		<b>^ Milestone course</b>		<b>Semester Credit Hours</b>	<b>16</b>		
					<b>TOTAL SEMESTER HOURS</b>	<b>65</b>	

c = Can be concurrent    m = Must be concurrent

\* All incoming students will be required to provide ACT scores or take a placement test. Based on their scores, students will be placed in appropriate English and mathematics courses. Successful completion of developmental English, and mathematics prerequisites require a grade of C- or above in the course. Developmental English and mathematics course prerequisites can also be attained through placement testing. See the [Standardized Testing Cutoff Scores](#) for specific tests and test scores.

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.