



**Traverse Bay Area Early College  
STEM Pre-Engineering PENG Pathway  
Sequences of Courses (Grades 10-13)**



10th Grade			Delivery Institution			
Term:	Course Number:	Description:	Home School	CTC	NMC/FSU	Total College Credits
FALL	COMPASS/PLATO	Testing and Instruction practice in ELA and Mathematics			X	N/C
YEAR	10th grade ELA	Focus: Critical Response and Stance **MME ELA	X			
	Geometry	**MMC Mathematics	X			
	World History and Geography	**MMC Social Studies	X			
SUMMER	COMPASS/PLATO	Testing and Instruction practice in ELA and Mathematics			X	N/C
	ENG 107 (NMC)/FSUS 100 (FSU) (Spring or Summer)	Academic Study Methods (NMC)/ FSU Seminar (FSU)			X	2
					<b>Totals:</b>	<b>2</b>

11th Grade			Delivery Institution			
Term:	Course Number:	Description:	Home School	CTC	NMC/FSU	Total College Credits
FALL	FSU Cultural Enrichment Elective/NMC Equiv.	NMC/FSU Course that is categorized as Cultural Enrichment Elective			X	3
	CDTD 112	CAD Fundamentals (FSU on-line)		X		2
SPRING	FSU Social Awareness Elective/NMC Equiv.	NMC/FSU Course that is categorized as Social Awareness Elective			X	3
	CDTD 290 (FSU)	Special Topics in CDTD (FSU on-line)		X		2
YEAR	11th grade ELA	Focus: Transformational Thinking **MMC ELA		X		
	Algebra II/Trig/Pre-Calculus/Calculus	**MMC Mathematics		X		
	Physics or Chemistry	**MMC Science		X		
	Manufacturing Technology Academy	Technology I (11th grade)/II (12th grade)		X		
SUMMER	COM 111 (NMC)/COMM 121 (FSU)	Public Speaking (NMC)/Fundamentals - Public Speaking (FSU)			X	4
					<b>Totals:</b>	<b>14</b>

12th Grade			Delivery Institution			
Term:	Course Number:	Description:	Home School	CTC	NMC/FSU	Total College Credits
FALL	ENG 111 (NMC)/ENGL 150 (FSU)	English Composition (NMC)/English I (FSU)			X	4
	MATH 220 (FSU)	Analytical Geometry - Calculus I (FSU)			X	5
SPRING	ENG 112 (NMC)/ENGL 250 (FSU)	English Composition (NMC)/English II (FSU)			X	4
	MATH 230 (FSU)	Analytical Geometry - Calculus II (FSU)			X	5
YEAR	12th grade ELA	Focus: Leadership **MMC ELA		X		
	Manufacturing Technology Academy	Technology I (11th grade)/II (12th grade)		X		
	.5 credit in Economics	**MMC Social Studies		X		
SUMMER	FSU Cultural Enrichment Elective/NMC Equiv.	NMC/FSU Course that is categorized as Cultural Enrichment Elective			X	3
	FSU Social Awareness Elective/NMC Equiv.	NMC/FSU Course that is categorized as Social Awareness Elective			X	3
					<b>Totals:</b>	<b>24</b>

13th Grade			Delivery Institution			
Term:	Course Number:	Description:	Home School	CTC	NMC/FSU	Total College Credits
FALL	MTH 241 (NMC)/MATH 320 (FSU)	Calculus III (NMC)/Analytical Geometry - Calculus III (FSU)			X	4
	PHY 221 & 221R (NMC)/PHYS 241 (FSU)	Probs/Prins Of Physics 1 & REC(NMC)/General Physics 1 (FSU)			X	4
	HST 111 (NMC)/HIST 121 (FSU)	US History to 1865 (NMC)/US History to 1877 (FSU) **MMC Social Studies/FSU Cultural Enrichment			X	3
SPRING	MTH 251 (NMC)/MATH 330 (FSU)	Differential Equations (NMC)/Differential Equations (FSU)			X	4
	PHY 222 & 222R (NMC)/PHYS 242	Probs/Prins Of Physics 2 & REC(NMC)/General Physics 2 (FSU)			X	4
	GEO 108 (NMC)/GEOG 201 (FSU)	Geography of US & Canada (NMC/FSU) **MMC Social Studies/FSU Social Awareness			X	3
SUMMER	CPSC 200 (FSU)	Object Oriented Programming (FSU)			X	4
	CHM 150 & 150L (NMC)/CHEM 121 (FSU)	General Chemistry I (NMC)/General Chemistry I (FSU)			X	4
	MATH 322 (FSU)	Linear Algebra (FSU)			X	3
<b>Notes:</b> Beginning with the Class of 2016, students will need to fulfill 2-credit "language other than English" requirement.					<b>Totals:</b>	<b>33</b>

<b>Total College Credits Earned:</b>	<b>73</b>
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\*For transferability of credits to four-year institutions other than FSU, it is important that the TBA Early College student carefully reviews the policies/procedures specific to the institution.