



**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 | Physics or Chemistry | **MMC Science | X | | | |
| | 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 |
| | | | | | Totals: | 2 |

| 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 |
| | | | | | Totals: | 14 |

| 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 |
| | | | | | Totals: | 24 |

| 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 I & 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 |
| Notes: Beginning with the Class of 2016, students will need to fulfill 2-credit "language other than English" requirement. | | | | | Totals: | 33 |

Total College Credits Earned: 73

*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.