Course #	College Forum  English Composition I Calculus I Enginering Tools General Chemistry I eneral Education Elective Induction to Engineering Tools Incident Elective Induction to Engineering Design Calculus II Physics I English Composition II eneral Education Elective  English Composition II eneral Education Elective  Eagineering Statics Calculus III Physics I Elective: Programming and Logic I lective: Aeembly Lang Comp Arch lus IV: Differential Equations Iss IV: Differential Equations Physics II there we programming and Logic I lective: Programming and Logic I lective: Programming Elective: Electric Circuits	Credits   1   3   4   4   4   4   4   4   4   4   4	ELEC000 ENG 101 MAT 151 ESC 120 CHE 130  ESC 110 MAT 152 PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ESC 252 MAT 260 PHY 203 CS 240 ESC 240 ESC 240	Electrical and Computer Engineering  Equivalent Course Title  General Elective Freshmen Composition Calculus I Design Tools and Processes (ECE 101)  General Chemistry General Education Elective  Introduction to Engineering (ECE 101)  Calculus II Calculus Based Physics II Basic Communications Credit General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus Based Physics II Calculus Based Physics II Computing Fundamentals Microprocessors  Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective)  Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective)  Data Structures	Credits Accepted  1 3 4 4 1 1 4 3 3 4 4 4 4 4 4 4 4 4 4			
Course #	Course Title  College Forum English Composition I Calculus I Englisch Composition I Calculus I Englisch Composition I Calculus I Englisch Composition II Control Education Elective Inction to Engineering Design Calculus II Physics I English Composition II eneral Education Elective Engineering Statics Calculus II Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III Live Prog. And Logic II Data Structures*	1 3 4 3 4 3 3 4 4 4 4 4 4 4 4 4 4 4	ELECO00 ENG 101 MAT 151 ESC 120 CHE 130  ESC 110 MAT 152 PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	General Elective Preshmen Composition Calculus I Design Tools and Processes (EE 101) General Chemistry General Education Elective Introduction to Engineering (ECE 101) Calculus II Calculus SI General Education Elective  Basic Communications Credit General Education Elective  Engineering Mechanics: Statics (Professional Elective) Calculus Based Physics II Calculus Based Physics II Computing Fundamentals Microprocessors  Ordinary Differential Equations & Series Solutions Calculus Based Physics II (Professional Elective) Data Structures	Accepted  1 3 4 4 1 3 3 4 4 1 1 3 3 4 4 4 4 4 4			
ENGL 101  MAT 180 ENGR 110  CHEM 110 or CHEM 120  Ge  ENGR 120  ENGR 120  Introd MATH 190 PHYS 150 ENGL 102  ENGR 211 MATH 210 PHYS 151 CISS 280 Restricted Els  MATH 220 Calcul PHYS 250 Calcul PHYS 250 Calcul ENGR 211  Engineering Elect ENGR 225 Engineering Elect	English Composition I Caclulus I Engineering Tools General Chemistry I eneral Education Elective Institute to Engineering Design Calculus II Physics II Engineering Statics Calculus III Physics II Elective Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III Us. VI Differential Equations Physics III I Data Structures*	3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ENG 101  MAT 151  ESC 120  CHE 130  ESC 110  MAT 152  PHY 201  BCM 001  ESC 210  MAT 233  PHY 202  CS 108  ECE 252  MAT 260  PHY 203  CS 240	Freshmen Composition Calculus I Design Tools and Processes (ECE 101) General Chemistry General Education Elective Introduction to Engineering (ECE 101) Calculus II Calculus Based Physics I Basic Communications Credit General Education Elective Engineering Mechanics Statics (Professional Elective) Calculus III Calculus Based Physics II Calculus Based Physics II Calculus Based Physics II Computing Fundamentals Microprocessors Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective) Data Structures	3 4 1 4 3 3 4 4 4 1 1 3 3 4 4 4 4 4 4 4			
ENGL 101  MAT 180 ENGR 110  CHEM 110 or CHEM 120  Ge  ENGR 120  ENGR 120  Introd MATH 190 PHYS 150 ENGL 102  ENGR 211 MATH 210 PHYS 151 CISS 280 Restricted Els  MATH 220 Calcul PHYS 250 Calcul PHYS 250 Calcul ENGR 211  Engineering Elect ENGR 225 Engineering Elect	English Composition I Caclulus I Engineering Tools General Chemistry I eneral Education Elective Institute to Engineering Design Calculus II Physics II Engineering Statics Calculus III Physics II Elective Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III Us. VI Differential Equations Physics III I Data Structures*	3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ENG 101  MAT 151  ESC 120  CHE 130  ESC 110  MAT 152  PHY 201  BCM 001  ESC 210  MAT 233  PHY 202  CS 108  ECE 252  MAT 260  PHY 203  CS 240	Freshmen Composition Calculus I Design Tools and Processes (ECE 101) General Chemistry General Education Elective Introduction to Engineering (ECE 101) Calculus II Calculus Based Physics I Basic Communications Credit General Education Elective Engineering Mechanics Statics (Professional Elective) Calculus III Calculus Based Physics II Calculus Based Physics II Calculus Based Physics II Computing Fundamentals Microprocessors Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective) Data Structures	3 4 1 4 3 3 4 4 4 1 1 3 3 4 4 4 4 4 4 4			
MAT180	Calculus I Engineering Tools General Chemistry I eneral Education Elective fluction to Engineering Design Calculus II Physics I Engine Composition II eneral Education Elective  Lengineering Statics Calculus III Physics II Engineering Statics Calculus III Dispiss III Lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III twe Prog. And Logic II Data Structures*	4 3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	MAT 151 ESC 120 CHE 130  CHE 130  ESC 110 MAT 152 PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	Calculus I Design Tools and Processes (ECE 101)  General Chemistry General Education Elective  Introduction to Engineering (ECE 101)  Calculus II Calculus Sased Physics I Basic Communications Credit General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus Based Physics II Calculus Based Physics II Computing Fundamentals Microprocessors  Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective)  Data Structures	4 1 1 4 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4			
ENGR 110   CIS2   Engineering ELOC   CIS2   CIS3	Engineering Tools General Chemistry I eneral Education Elective Iduction to Engineering Design Calculus II Physics I English Composition II eneral Education Elective Engineering Statics Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III Usi V: Differential Equations Physics III Ver Prog. And Logic II Data Structures*	3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ESC 120  CHE 130  ESC 110  MAT 152  PHY 201  BCM 001  ESC 210  MAT 253  PHY 302  CS 108  ECE 252  MAT 260  PHY 203  CS 240	Design Tools and Processes (ECE 101)  General Chemistry General Education Elective  Introduction to Engineering (ECE 101)  Calculus II  Calculus Based Physics I  Basic Communications Credit  General Education Elective  Engineering Mechanics Statics (Professional Elective)  Calculus III  Calculus Based Physics II  Calculus IIII  Calculus IIII  Calculus Based Physics III  Computing Fundamentals  Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)  Data Structures	1 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
CHEM 110 or CHEM 120  Ge ENGR 120 Introd MATH 190 PHYS 150 ENGL 102  ENGR 211 MATH 210 PHYS 151 CISS 110 Engineering 12 CISS 280 Restricted EN MATH 220 CAlcul PHYS 250 CISS 111 Engineering Elect ENGR 225 Engineering Elect	General Chemistry I eneral Education Elective Inction to Engineering Design Calculus II Physics I English Composition II eneral Education Elective  Engineering Statics Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III tus Prog. And Logic II Data Structures*	4 3 4 4 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	ESC 110  MAT 152 PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	General Chemistry General Education Elective  Introduction to Engineering (ECE 101) Calculus II Calculus II Calculus II Calculus II Basic Communications Credit General Education Elective  Engineering Mechanics: Statics (Professional Elective) Calculus III Calculus Based Physics II Computing Fundamentals Microprocessors  Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective) Data Structures	3 3 4 4 1 1 3 3 4 4 4 4 4 4 4 4 4 4 4 4			
120   Ge	eneral Education Elective  Inction to Engineering Design  Calculus II  Physics I  English Composition II  eneral Education Elective  Engineering Statics  Calculus III  Physics II  Elective: Programming and Logic I  lective: Assembly Lang Comp Arch  lus IV: Differential Equations  Physics III  ive: Programming II Data Structures*	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ESC 110  MAT 152  PHY 201  BCM 001  ESC 210  MAT 253  PHY 202  CS 108  ECE 252  MAT 260  PHY 203  CS 240	General Education Elective  Introduction to Engineering (ECE 101)  Calculus II  Calculus II  Calculus Sased Physics I  Basic Communications Credit  General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus III  Calculus Based Physics II  Computing Fundamentals  Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics II (Professional Elective)  Data Structures	3 4 4 1 1 3 3 4 4 4 4 4 4			
ENGR 120 Introd  MATH 190  PHYS 150  ENGL 102  ENGR 211  MATH 210  PHYS 151  CISS 110  Engineering 12  CISS 280  Restricted Els  MATH 220  CAlcult  PHYS 250  CISS 111  Engineering Elect  ENGR 225  Engineering Elect	Inction to Engineering Design Calculus II Physics I English Composition II eneral Education Elective  Engineering Statics Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch tus IV: Differential Equations Physics III Us IV: Differential Equations Physics III IV: Prog. And Logic II Data Structures*	3 4 4 3 3 3 4 4 4 4 4 4 4 4 4	MAT 152 PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	Introduction to Engineering (ECE 101)  Calculus II  Calculus Based Physics I  Basic Communications Credit  General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus III  Calculus Based Physics III  Computing Fundamentals  Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)	3 4 4 1 1 3 3 4 4 4 4 4 4			
MATH 190 PHYS 150 ENGL 102 I ENGR 211 MATH 210 PHYS 151 CISS 110 Engineering I Engineering I CISS 280 Restricted Elvin Engineering I CISS 280 MATH 220 CAlcult PHYS 250 CISS 111 Engineering Elect ENGR 225 Engineer Elect ENGR 225 Engineer Elect Engineering Elect ENGR 225 Engineer Engineering Elect ENGR 225 Engineer ENGR 225 Engineer Engineering Elect Engineering Elect ENGR 225 Engineer Engineering Elect Engineering Elect ENGR 225 Engineer Engineering Elect Eng	Calculus II Physics I English Composition II eneral Education Elective  Engineering Statics Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III ive: Programming and Logic I lective State II ive: Programming and Logic I lective State II ive: Programming II ive: Program	4 4 3 3 4 4 4 4 4 4 4 4 4	MAT 152 PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	Calculus II  Calculus Based Physics I  Basic Communications Credit  General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus III  Calculus Saed Physics II  Computing Fundamentals  Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)  Data Structures	4 4 1 3 3 4 4 4 4 4 4			
MATH 190 PHYS 150 ENGL 102 ENGR 211 MATH 210 PHYS 151 CISS 110 Engineering 1 CISS 280 Restricted Els PHYS 250 CISS 111 Engineering Elect ENGR 225 Engineering Elect	Calculus II Physics I English Composition II eneral Education Elective  Engineering Statics Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III ive: Programming and Logic I lective State II ive: Programming and Logic I lective State II ive: Programming II ive: Program	4 4 3 3 4 4 4 4 4 4 4 4 4	MAT 152 PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	Calculus II  Calculus Based Physics I  Basic Communications Credit  General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus III  Calculus Saed Physics II  Computing Fundamentals  Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)  Data Structures	4 4 1 3 3 4 4 4 4 4 4			
PHYS 150	English Composition II eneral Education Elective  Engineering Statics Calculus III Physics II Elective: Programming and Logic I elective: Programming and Logic I us IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	3 3 4 4 4 4 4 4 4 4 4 4 4	PHY 201 BCM 001  ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	Calculus Based Physics I  Basic Communications Credit  General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus III  Calculus III  Computing Fundamentals  Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)  Data Structures	3 4 4 4 4 4 4			
ENGL 102 Ge  ENGR 211  MATH 210  PHYS 151  CISS 110 Engineering 1  CISS 280 Restricted El-  MATH 220 Calcul  PHYS 250  CISS 111 Engineering Elect  ENGR 225 Engineering Elect	English Composition II eneral Education Elective  Engineering Statics Calculus III Physics II Elective: Programming and Logic I elective: Programming and Logic I us IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	3 3 4 4 4 4 4 4 4 4 4 4 4	ESC 210 MAT 253 PHY 202 CS 108 ECE 252 MAT 260 PHY 203 CS 260 MAT 260 PHY 203 CS 240	Basic Communications Credit General Education Elective  Engineering Mechanics: Statics (Professional Elective) Calculus III Calculus Based Physics II Computing Fundamentals Microprocessors  Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective) Data Structures	3 4 4 4 4 4 4			
Ge	eneral Education Elective  Engineering Statics Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	4 4 4 4 4 4 4 4 4 4	ESC 210 MAT 253 PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	General Education Elective  Engineering Mechanics: Statics (Professional Elective)  Calculus III  Calculus Based Physics II  Computing Fundamentals  Microprocessors  Ondinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)  Data Structures	3 4 4 4 4 4 4 4			
ENGR 211  MATH 210  PHYS 151  CISS 110  Engineering Engineering Engineering Elect  PHYS 250  CISS 111  Engineering Elect  ENGR 225  Engineer  Engineering Elect	Engineering Statics Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch los IV: Differential Equations Physics III two: Prog. And Logic II Data Structures*	4 4 4 4 4 4 4 4 4 4	MAT 253 PHY 202 CS 108 ECE 252 MAT 260 PHY 203 CS 240	Engineering Mechanics: Statics (Professional Elective) Calculus III Calculus Based Physics II Computing Fundamentals Microprocessors Ordinary Differential Equations & Series Solutions Calculus Based Physics II (Professional Elective) Data Structures	3 4 4 4 4 4 4 4			
MATH 210           PHYS 151           CISS 110         Engineering 1           CISS 280         Restricted Ele           MATH 220         Calcult           PHYS 250         CISS 111           Engineering Elect         Engineering Elect           ENGR 225         Engineering Elect	Calculus III Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	4 4 4 4 4	MAT 253 PHY 202 CS 108 ECE 252 MAT 260 PHY 203 CS 240	Calculus III Calculus Based Physics II Computing Fundamentals Microprocessors Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective) Data Structures	4 4 4 4 4 4 4			
PHVS 151         Engineering 1           CISS 110         Engineering 1           CISS 280         Restricted Els           MATH 220         Calcult           PHVS 250         Ciss 111           Engineering Elect         Engineering Elect           ENGR 225         Engineer	Physics II Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	4 4 4 4 4	PHY 202 CS 108 ECE 252  MAT 260 PHY 203 CS 240	Calculus Based Physics II  Computing Fundamentals  Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)  Data Structures	4 4 4 4			
CISS 110 Engineering 1 CISS 280 Restricted Eli MATH 220 Calcult PHYS 250 CISS 111 Engineering Electi ENGR 225 Engineer	Elective: Programming and Logic I lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	4 4 4	CS 108 ECE 252 MAT 260 PHY 203 CS 240	Computing Fundamentals Microprocessors Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective) Data Structures	4 4 4			
CISS 280   Restricted Eli   MATH 220   Calcult   PHYS 250     CISS 111   Engineering Electi   ENGR 225   Engineering Election	lective: Assembly Lang Comp Arch lus IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	4 4 4	ECE 252 MAT 260 PHY 203 CS 240	Microprocessors  Ordinary Differential Equations & Series Solutions  Calculus Based Physics III (Professional Elective)  Data Structures	4 4 4			
MATH 220 Calcult PHYS 250 CISS 111 Engineering Electi ENGR 225 Engineer	lus IV: Differential Equations Physics III tive: Prog. And Logic II Data Structures*	4 4 4	MAT 260 PHY 203 CS 240	Ordinary Differential Equations & Series Solutions Calculus Based Physics III (Professional Elective) Data Structures	4 4 4			
PHYS 250  CISS 111 Engineering Electi ENGR 225 Engineer	Physics III tive: Prog. And Logic II Data Structures*	4	PHY 203 CS 240	Calculus Based Physics III (Professional Elective)  Data Structures	4			
PHYS 250 CISS 111 Engineering Electi ENGR 225 Engineer	Physics III tive: Prog. And Logic II Data Structures*	4	PHY 203 CS 240	Calculus Based Physics III (Professional Elective)  Data Structures	4			
CISS 111 Engineering Electi ENGR 225 Engineer	tive: Prog. And Logic II Data Structures*	4	CS 240	Data Structures	4			
ENGR 225 Engineer								
	ering Elective: Electric Circuits	4	ECE 260					
Year Three-Fall				Electric Circuits	4			
				Electrical Engineering Concentration		Compu	iter Engineering Concentration	
			ECE 301	Signals and Systems	4	ECE 301	Signals and Systems	4
			ECE 315	Electronics I	4	ECE 315	Electronics I	4
			ECE 332	Semiconductors Devices	3	MAT 370	Applied Probability	4
			ECE 281	ECE Seminar I	1	ECE 281	ECE Seminar I	1
			ECE 382	ECE Seminar II	1	MAT 413	Discrete Math	4
Year Three-Spring								
			MAT 370	Applied Probability	4	ECE 352	Computer Architeture	3
			ECE 387	Junior Design Lab	3	ECE 387	Junior Design Lab**	3
			ECE 361	Controls Systems	3	ECE 359	Computer Networks	3
			ECE 377	Communications	4	COM 306	Upper Division Writing	4
Year Four- Fall			ECE 251	Digital Logic	4	ECE 251	Digital Logic	4
Year Four- Pall				General Education	4	ECE 351	Digital System Design	4
			ECE 3xx	ECE Technical Elective	3	ECE 3xx	ECE Technical Elective	3
			ECE 487	Senior Design Lab I	4	ECE 487	Senior Design Lab I	4
			COM 306	Upper Dvision Writing	4	ECE 487	ECE Seminar II	1
				REC or FIT	1	E-CE 302	General Education	4
				NEC WAY			REC or FIT	1
Year Four-Spring								•
			ECE 488	Senior Design Lab II	4	ECE 488	Senior Design II	4
			ECE 323	Electromagnetics	3	CS 330	Operating Systems	4
			ECE 3xx	ECE Technical Elective	3	ECE 3xx	ECE Technical Elective	3
				General Education	4		General Education	4
				REC or FIT	1	·	REC or FIT	1
	Total Taken at HVCC	71		Total Transfer Applied	66		Total Transfer Applied	59
				Total Remaining at SUNY POLY	62		Total Remaining at SUNY POLY	67
		_		Total Remaining at SUNY POLY  Total for Bachelors	128		Total for Bachelors	126

\*ECE Program requires 1 professional elective for CE concentration and 2 professional electives for the EE concentration