

Computer Engineering

MTH 124 Start, 5 Year Plan

Secondary Admission Required

1st Year					
Fall		Winter		Spring/Summer	
MTH 124: Precalculus: F & M	5	*MTH 201: Calculus 1	4		
*WRT 150: Strategies in Writing	4	*CHM 115: Chemistry I	4		
or WRT 120 and WRT 130		*EGR 108: Appl Program for EGR II	2		
*EGR 100: Intro to EGR	1	*EGR 113: Intro to CAD/CAM	1		
*EGR 111: Intro to EGR Graphics	1	General Education	3		
*EGR 104: Appl Program for EGR I	2				
Total	13	Total	14		
2nd Year					
Fall		Winter		Spring/Summer	
*MTH 202: Calculus 2	4	*MTH 203: Calculus 3	4		
*EGR 185: First-Year EGR Design	5	*PHY 230: Physics 1	5		
General Education	3	*STA 220: Stat Modeling for EGR	2		
General Education	3	*EGR 220: EGR Measure & Data	1		
		General Education	3		
Total	15	Total	15		
3rd Year					
Fall		Winter		Spring/Summer	
*PHY 234 or 231: Physics 2	4-5	*MTH 302: Linear Algebra/Diff Eq	4	EGR 290: Engineering Co-op 1	3
*EGR 224: Intro to Digital System	3	*EGR 223: Prob. & Signal Analysis	3	General Education	3
*CIS 159: Java Programming for EGR	1	*CIS 163: Computer Science 2	4		
*EGR 226: Microcontroller Program	3	*EGR 214: Circuit Analysis 1	3		
*EGR 227: Microcontroller Program Lab	1	*EGR 215: Circuit Analysis 1 Lab	1		
*EGR 289: EGR Professionalism	1				
Total	13-14	Total	15	Total	6
4th Year ~ Admission Required					
Fall		Winter		Spring/Summer	
EGR 314: Circuit Analysis 2	4	EGR 390: Engineering Co-op 2	3	^CIS 241: Sys-level Progr. & Util	3
EGR 315: Electronic Circuits 1	4	General Education	3	CIS 350: Intro to Software Egr	3
EGR 326: Embedded Sys. Design	4			^CIS 263: Data Struct. & Algorith.	3
				ECO 210 or 211: Economics	3
Total	12	Total	6	Total	12
5th Year ~ Admission Required					
Fall		Winter		Spring/Summer	
EGR 490: Engineering Co-op 3	3	EGR 485: Senior EGR Project 1	1	EGR 486: Senior EGR Project 2	2
		CIS 452: Operating Sys Concepts	4	CE Elective	3-4
		CE Elective (Select 2)	6-8	General Education (Select 3)	9
Total	3	Total	11-13	Total	14-15

- This is a suggested curriculum guide that might not be applicable to every student
- Foundation courses are required for secondary admission and are designated by an asterisk (*) on this guide
- ^CIS 241 is completed in the 1st 6 weeks of Summer and CIS 263 is completed in the 2nd 6 weeks of Summer. A Registration Override Request via Banner will be required to register for both courses simultaneously.
- Student must have a **minimum of 120 credits** to graduate, with **58 of the 120 credits** being from a senior level institution and the **final 30 of the 120 credits** completed at GVSU

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✓	CE Foundation Course Requirements	✓	General Education Requirements
	WRT 150		WRT 150: Strategies in Writing (grade of "C" or higher required) or WRT 120 and WRT 130
	MTH 201		Life Sciences (consider BIO 105)
	MTH 202		Physical Sciences (CHM 115)
	MTH 203		Philosophy and Literature (PHI 102)
	MTH 302		Arts
	CHM 115		Mathematical Sciences (MTH 201)
	PHY 230		Social Behavioral Sciences (ECO 210 or ECO 211)
	PHY 231 or PHY 234		Social Behavioral Sciences
	STA 220/EGR 220		Historical Analysis (consider HSC 202)
	EGR 100		U.S. Diversity
	EGR 111		Global Perspectives
	EGR 112 or EGR 104+EGR 108		2 Supplemental Writing Skills Courses (prerequisite: WRT 150)
	EGR 113		2 Issues Courses (must have 55+ credits)
	EGR 185		
	EGR 224		
	EGR 226/227		
	EGR 289		
	EGR 223		
	EGR 214/215		
	CIS 159		
	CIS 163		

Secondary Admission Requirements:

Detailed application and admission requirements available at <https://www.gvsu.edu/engineering/secondary-admission-to-engineering-majors-44.htm>

- ✓ A GPA of 2.7 or above in Engineering Foundation courses. Foundation courses are designated by an asterisk (*) on this guide.
- ✓ Completion of each course in the Engineering Foundation with a grade of C (2.0) or above, with no more than one repeat.
- ✓ Completion of preparation for placement in the cooperative engineering education course, EGR 289.

Major Notes:

- 1) CIS 241 is completed in the 1st 6 weeks of Summer and CIS 263 is completed in the 2nd 6 weeks of Summer. A Registration Override Request via Banner will be required to register for both courses simultaneously.
- 2) Consider taking a course that fulfills the U.S. Diversity category and one non-ECO Social and Behavioral Science course.
- 3) Consider taking a course that fulfills the Global Perspectives category and one Issues course.
- 4) An ethics course is required in the engineering program. It is recommended to take **ONE** of the following:
 - a. PHI 102 in the Philosophy and Literature category
 - b. BIO 328, BIO 338, COM 438, EGR 302, MGT 340, MGT 438, MKT 375, PHI 325 OR PLS 338 in the Issues category
 - c. For Honors College students, the ethics requirement is fulfilled by completion of the Honors Curriculum
- 5) ECO 210 or 211 is required for the engineering major AND fulfills one Social and Behavioral Science course.
- 6) Two Supplemental Writing Skills (SWS) courses are required for graduation. These can be fulfilled via other general education categories.
For example, EGR 302 will fulfill ONE SWS requirement, one Issues requirement AND the engineering ethics requirement.

Recommendations:

It is strongly encouraged that students do not begin or break curriculum thread by taking courses at other institutions.

For example: Taking MTH 201 equivalent elsewhere, then return to Grand Valley and continuing in the math thread with MTH 202.