Grand Valley State University
Seymour and Esther Padnos College of Engineering and Computing

Bachelor of Science in Engineering (B.S.E.)

Electrical Engineering

Honors College: MTH 201 Start, 4 Year Plan

Secondary Admission Required

2023 – 2024 Catalog Year

1st Year								
Fall		**Winter**		**Spring/Summer**	
*MTH 201: Calculus 1	4	*MTH 202: Calculus 2	4	*EGR 185: First-Year EGR Design	2
*EGR 100: Intro to EGR	1	*PHY 230: Physics 1	5	*CHM 115: Chemistry 1	4
*EGR 111: Intro to EGR Graphics	1	*EGR 113: Intro to CAD/CAM	1	*MTH 203: Calculus 3	4
*EGR 112: Appl Program for EGR	2	HNR 153: Interdisciplinary Seq. 3	3		
HNR 151: Interdisciplinary Seq. 1	3	HNR 154: Interdisciplinary Seq. 4	3		
HNR 152: Interdisciplinary Seq. 2	3				
Total	**14**	**Total**	**16**	**Total**	**10**
2nd 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
*STA 220: Stat Modeling for EGR	2	*EGR 223: Prob. & Signal Analysis	3		
*EGR 220: EGR Measure & Data	1	*EGR 257: Elec. Materials & Devices	4		
*EGR 224: Intro to Digital System	3	*EGR 214: Circuit Analysis 1	3		
*EGR 226: Microcontroller Program	3	*EGR 215: Circuit Analysis 1 Lab	1		
*EGR 227: Microcontroller Program Lab	1				
*EGR 289: EGR Professionalism	1				
Total	**15-16**	**Total**	**15**	**Total**	**3**
3rd Year ~ Admission Required								
Fall		**Winter**		**Spring/Summer**	
EGR 314: Circuit Analysis 2	4	EGR 390: Engineering Co-op 2	3	EGR 330: Power Sys. Analysis	4
EGR 315: Electronic Circuits 1	4			EGR 343: Appl. Electromagnetics	4
EGR 326: Embedded Sys. Design	4			EGR 323: Signals & Sys. Analysis	3
HNR 201: Live. Learn. Lead.	3			ECO 210 or 211: Economics	3
Total	**15**	**Total**	**3**	**Total**	**14**
4th 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
		EE Electives (select 3)	3-4	EE Elective	3-4
		EE Elective	3-4	Supplemental Writing Skills	3
		EE Elective	3-4	HNR 350: Integrative Seminar	3
Total	**3**	**Total**	**10-13**	**Total**	**11-12**

- 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
- 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

Padnos College of Engineering and Computing ~ Student Services Office
B-3-241 Mackinac Hall and 101 Eberhard Center
(616) 331-6025 or online at www.gvsu.edu/pcec/advising

EE Foundation Course Requirements			
WRT 150 (or WRT 130)	MTH 201	MTH 202	MTH 203
MTH 302	PHY 230	PHY 231 or PHY 234	CHM 115
STA 220/EGR 220	EGR 100	EGR 111	EGR 112 (or EGR 104+108)
EGR 113	EGR 185	EGR 224	EGR 226/227
EGR 289	EGR 223	EGR 257	EGR 214/215

Honors Requirements	
HNR 151	HNR 152
HNR 153	HNR 154
HNR 300 (fulfilled by EGR 290, EGR 390, and EGR 490)	HNR 201
HNR 251 (fulfilled by EGR 100 + EGR 185)	HNR 350
HNR 401/499 (fulfilled by EGR 485 + EGR 486)	

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.

Honors:

The Frederik Meijer Honors College and the School of Engineering have approved the following substitutions for the honors curriculum:

1) Together, EGR 100 and EGR 185 fulfill the HNR 251 requirement.
2) EGR 290, EGR 390, and EGR 490 fulfill the HNR 300 requirement. Students are encouraged to plan ahead and submit a proposal form for the HNR 300 substitution.
3) EGR 485 fulfills the HNR 401 requirement.
4) EGR 486 fulfills the HNR 499 requirement.
5) The completion of the honors curriculum will fulfill the engineering ethics requirement.
6) All GVSU students must earn credit for two Supplemental Writing Skills (SWS) courses. Honors students can earn credit for one SWS course by completing HNR 154 (the winter semester of a first-year sequence) with a grade of C or better. They must earn their second SWS course credit outside of the Honors requirements.

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.