

Electrical Engineering

Grand Valley State University 2020-21 Catalog

MTH 201 Placement – 5 year program

Secondary Admission Criteria

1) A GPA of 2.7 or above in the Engineering Foundation courses. Engineering Foundation courses are designated by an asterisk (*) on this guide.

2) Completion of each course in the Engineering Foundation with a grade of C (2.0) or above, with no more than one repeat.

3) Completion of preparation for placement in the cooperative engineering education course, EGR 289.

1st Semester Fall: 15 credits

*MTH 201 Calculus 1
*WRT 150 Writing Strategies
 OR WRT 120/WRT 130 (may change timeline)
*EGR 100 Introduction to Engineering
*EGR 111 Introduction to Engineering Graphics
*EGR 112 Applied Programming for Engineers
General Education Course

2nd Semester Winter: 15 credits

*MTH 202 Calculus 2
*CHM 115 Chemistry 1
*EGR 113 Introduction to CAD/CAM
General Education Courses (Select 2)

3rd Semester Fall: 14 credits

*MTH 203 Calculus 3
*PHY 230 Physics 1
*EGR 185 First-Year Engineering Design
*STA 220 Statistical Modeling for Engineers
*EGR 220 Egr Measurement and Data Analysis

4th Semester Winter: 14 credits

*MTH 302 Linear Algebra and Differential Equations
*EGR 224 Introduction to Digital System
*EGR 226 Microcontroller Programming
General Education Course

5th Semester Fall: 12-13 credits

*PHY 234 or 231 Physics 2
*EGR 214 Circuit Analysis 1
ECO 210 **OR** 211 Economics
*EGR 289 Engineering Co-op Preparation

6th Winter Semester: 13 credits

*EGR 223 Probability & Signal Analysis
*EGR 257 Electrical Materials and Devices
General Education Courses (Select 2)

Spring/Summer Semester: 3 credits

EGR 290 Engineering Co-op 1

7th Fall Semester: 12 credits

EGR 314 Circuit Analysis 2
EGR 315 Electronic Circuits 1
EGR 326 Embedded System Design

Winter Semester: 3 credits

EGR 390 Engineering Co-op 2

8th Semester Spring/Summer: 14 credits

EGR 330 Power Systems Analysis
EGR 343 Applied Electromagnetics
EGR 323 Signals and Systems Analysis
General Education Course

Fall Semester: 6-7 credits

EGR 490 Engineering Co-op 3
Electrical Engineering Elective

9th Semester Winter: 13-14 credits

EGR 485 Senior Engineering Project 1
Electrical Engineering Electives (Select 2)
General Education Courses (Select 2)

10th Semester Spring/Summer: 5-6 credits

EGR 486 Senior Engineering Project 2
Electrical Engineering Elective

It is important to meet with a professional advisor in the PCEC Advising Center on a regular basis. The PCEC Advising Center is located in 101 Eberhard Center. Please call 616-331-6025 or go online at www.gvsu.edu/pcec/advising to schedule an appointment.

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General Education

<u>Category</u>	<u>Completed?</u>	<u>Category</u>	<u>Completed?</u>	<u>Category</u>	<u>Completed?</u>
Physical Sciences (CHM 115)		Mathematical Sciences (MTH 201)		Global Perspectives	
Life Sciences		Social & Behavioral Sciences (ECO 210/211)		U.S. Diversity	
Arts		Social & Behavioral Sciences		Issues	
Philosophy & Literature		Historical Perspectives		Issues	

- 1) Consider taking a course that fulfills the U.S. Diversity category and one non-ECO Social and Behavioral Science course
- 2) Consider taking a course that fulfills the Global Perspectives category and one Issues course
- 3) 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
- 4) ECO 210 or 211 is required for the engineering major AND fulfills one Social and Behavioral Science course.
- 5) 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.

PCEC Advisors

Elizabeth Brand, brandeli@gvsu.edu
Jessica Noble, noblejes@gvsu.edu
Audra Pretty-Smith, prettyau@gvsu.edu

Colin DeKuiper, dekuippec@gvsu.edu
Mary Nuznov, nuznovma@gvsu.edu
Sara Wheeler, wheelesa@gvsu.edu