

Electrical Engineering

Grand Valley State University 2020-21 Catalog
MTH 201 Placement – 5 year Honors 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: 14 credits

*MTH 201	Calculus 1
*EGR 100	Introduction to Engineering
*EGR 111	Introduction to Engineering Graphics
*EGR 112	Applied Programming for Engineers
HNR 151	First Year Interdisciplinary Sequence 1
HNR 152	First Year Interdisciplinary Sequence 2

2nd Semester Winter: 13 credits

*MTH 202	Calculus 2
*EGR 113	Introduction to CAD/CAM
*EGR 185	First-Year Engineering Design
HNR 153	First Year Interdisciplinary Sequence 3
HNR 154	First Year Interdisciplinary Sequence 4

3rd Semester Fall: 14 credits

*MTH 203	Calculus 3
*CHM 115	Chemistry 1
*STA 220	Statistical Modeling for Engineers
*EGR 220	Egr Measurement and Data Analysis
HNR 201	Live. Learn. Lead.

4th Semester Winter: 12 credits

*MTH 302	Linear Algebra and Differential Equations
*PHY 230	Physics 1
*EGR 224	Introduction to Digital System

5th Semester Fall: 12-13 credits

*PHY 234 or 231	Physics 2
*EGR 226	Microcontroller Programming
ECO 210 OR 211	Economics
*EGR 289	Engineering Co-op Preparation

6th Winter Semester: 14 credits

*EGR 223	Probability & Signal Analysis
*EGR 257	Electrical Materials and Devices
*EGR 214	Circuit Analysis 1
HNR 200	Campus/Community Engagement

Spring/Summer Semester: 3 credits

EGR 290	Engineering Co-op 1
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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
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8th Semester Spring/Summer: 14 credits

EGR 330	Power Systems Analysis
EGR 343	Applied Electromagnetics
EGR 323	Signals and Systems Analysis
HNR 350	Honors Integrative Seminar

Fall Semester: 3 credits

EGR 490	Engineering Co-op 3
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9th Semester Winter: 7-9 credits

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

10th Semester Spring/Summer: 8-10 credits

EGR 486	Senior Engineering Project 2
Electrical Engineering Elective (Select 2)	

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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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 485 fulfills the HNR 401 requirement.
- 3) EGR 486 fulfills the HNR 499 requirement.
- 4) The completion of the honors curriculum will fulfill the engineering ethics requirement.

Students are encouraged to plan ahead and submit a proposal for how they plan to fulfill the HNR 200 requirement. All students must complete 3 credits of HNR 200 before graduation. It can be taken as a 1-credit, 2-credit, or 3-credit course. There are three options for fulfilling this honors requirement: **pre-approved activity**, **pre-approved course substitution**, or **an activity or course**. Please work with an honors advisor to determine the best fit for you.

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

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