Computer 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: 15 credits
*MTH 203   Calculus 3
*EGR 185   First-Year Engineering Design
*STA 220   Statistical Modeling for Engineers
*EGR 220   Egr Measurement and Data Analysis
General Education Courses (Select 2)

4th Semester Winter: 15 credits
*MTH 302   Linear Algebra and Differential Equations
*PHY 230   Physics 1
General Education Courses (Select 2)

5th Semester Fall: 13-14 credits
*PHY 234 or 231 Physics 2
*EGR 224   Introduction to Digital System
*EGR 226   Microcontroller Programming
*CIS 159   Java Programming for Engineers
*EGR 289   Engineering Co-op Preparation

6th Winter Semester: 14 credits
*EGR 223   Probability & Signal Analysis
*CIS 163   Computer Science 2
*EGR 214   Circuit Analysis 1
General Education Course

Spring/Summer Semester: 3 credits
EGR 290   Engineering Co-op 1

7th Fall Semester: 15 credits
EGR 314   Circuit Analysis 2
EGR 315   Electronic Circuits 1
EGR 326   Embedded System Design
General Education Course

Winter Semester: 3 credits
EGR 390   Engineering Co-op 2

8th Semester Spring/Summer: 12 credits
CIS 350   Introduction to Software Engineering
CIS 241   System-level Programming Utilities
CIS 263   Data Structures and Algorithms
ECO 210 OR 211 Economics

Fall Semester: 3 credits
EGR 490   Engineering Co-op 3

9th Semester Winter: 11-13 credits
EGR 485   Senior Engineering Project 1
CIS 452   Operating Systems Concepts
Computer Engineering Electives (Select 2)

10th Semester Spring/Summer: 5-6 credits
EGR 486   Senior Engineering Project 2
Computer 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

Category	Completed?	Category	Completed?	Category	Completed?
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
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