

Computer Science

Grand Valley State University 2020-21 Catalog
MTH 122 Placement – 4 year program

Secondary Admission Criteria

- 1) Overall GPA of 2.5 or above in all Grand Valley State University coursework.
- 2) Completion of each course in the Computer Science foundation with a grade of C (2.0) or above. Foundation courses are designated by an asterisk (*) on this guide.
- 3) GPA of 2.5 or above in the Computer Science foundation.

1st Semester Fall: 14 credits

MTH 122 College Algebra
WRT 150 Writing Strategies
OR WRT 120/WRT 130 (may change timeline)
*CIS 162 Computer Science 1
*STA 215 Introductory Applied Statistics

2nd Semester Winter: 16 credits

MTH 123 Trigonometry
*CIS 163 Computer Science 2
*COM 201 Speech
*MTH 225 Discrete Structures: Computer Science
General Education Course

3rd Semester Fall: 16 credits

MTH 201 Calculus 1
MTH 325 Discrete Structures: Computer Science 2
CIS 241 System-level Programming and Utilities
General Education Courses (Select 2)

4th Semester Winter: 15-16 credits

MTH or STA Elective (See options in "Major Notes")
CIS 263 Data Structures and Algorithms
CIS 351 Computer Organization and Assembly Language
CIS 290 Professional Responsibilities and Practices
General Education Course

5th Semester Fall: 16-17 credits

CIS 350 Introduction to Software Engineering
CIS 353 Database
Sci. Cognate (See options in "Major Notes")
General Education Courses (Select 2)

6th Semester Winter: 15-16 credits

CIS 343 Structure of Programming Languages
CIS 457 Data Communications
Sci. Cognate (See options in "Major Notes")
CIS Elective

Spring/Summer Semester: 5-8 credits

CIS 490 Internship
General Education Course

7th Semester Fall: 13-14 credits

CIS 452 Operating Systems Concepts
CIS Elective
General Education Courses (Select 2)

8th Semester Winter: 15-16 credits

CIS 467 Computer Science Project
WRT 350 Business Communications
CIS Elective
General Education Courses (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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Major Notes

- 1) MTH or STA: Please select one of the following courses: MTH 202, MTH 204, MTH 465, STA 216 or STA 418
- 2) Sci. Cognate: Students may choose from BIO 120, BIO 121, BMS 202, CHM 115, CHM 116, GEO 111, PHY 220, PHY 221, PHY 230 and PHY 231.

General Education

<u>Category</u>	<u>Completed?</u>	<u>Category</u>	<u>Completed?</u>	<u>Category</u>	<u>Completed?</u>
Physical Sciences		Mathematical Sciences (MTH 122)		Global Perspectives	
Life Sciences		Social & Behavioral Sciences		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 Social and Behavioral Science course
- 2) Consider taking a course that fulfills the Global Perspectives category and one Issues course
- 3) Two Supplemental Writing Skills (SWS) courses are required for graduation. WRT 350 will fulfill **one** SWS requirement. The remaining SWS requirement can be fulfilled via a general education category.
- 4) The Physical Sciences and Life Sciences categories can be met by careful selection of CS science cognate courses.
For example: BIO 120 and GEO 111 will fulfill the Life Sciences and Physical Sciences categories, respectively. Together, they fulfill the CS science cognate 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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