

# Computer Science

Grand Valley State University 2020-21 Catalog

MTH 124 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: 16 credits

MTH 124 Precalculus: Functions & Models

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

\*CIS 163 Computer Science 2

\*COM 201 Speech

\*MTH 225 Discrete Structures: Computer Science

General Education Courses (Select 2)

## 3rd Semester Fall: 13 credits

MTH 201 Calculus 1

MTH 325 Discrete Structures: Computer Science 2

CIS 241 System-level Programming and Utilities

General Education Course

## 4th Semester Winter: 13 – 14 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

## 5th Semester Fall: 13-14 credits

CIS 350 Introduction to Software Engineering

CIS 353 Database

Sci. Cognate (See options in “Major Notes”)

General Education Course

## 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: 8-11 credits

CIS 490 Internship

General Education Courses (Select 2)

## 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](http://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 124)		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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