

Computer Science

Grand Valley State University 2021-22 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: F & M | 5 credits |
| WRT 150 | Writing Strategies | 4 credits |
| OR WRT 120/WRT 130 (may change timeline) | | |
| *CIS 162 | Computer Science 1 | 4 credits |
| *STA 215 | Intro Applied Statistics | 3 credits |

2nd Semester Winter: 16 credits

| | | |
|--------------------------------------|-------------------------|-----------|
| *CIS 163 | Computer Science II | 4 credits |
| *COM 201 | Speech | 3 credits |
| *MTH 225 | Discrete Structures: CS | 3 credits |
| General Education Courses (Select 2) | | 6 credits |

3rd Semester Fall: 13 credits

| | | |
|--------------------------|---------------------------|-----------|
| MTH 201 | Calculus 1 | 4 credits |
| MTH 325 | Discrete Structures: CS 2 | 3 credits |
| CIS 241 | Sys-level Program & Util | 3 credits |
| General Education Course | | 3 credits |

4th Semester Winter: 13 – 14 credits

| | | |
|--------------|--------------------------|-------------|
| MTH/STA Elec | Options in Major Notes | 3-4 credits |
| CIS 263 | Data Struct & Algorithms | 3 credits |
| CIS 351 | Comp Org & Assy Lang | 4 credits |
| CIS 290 | Prof Resp & Practices | 3 credits |

5th Semester Fall: 13-14 credits

| | | |
|--------------------------|------------------------|-------------|
| CIS 350 | Intro to Software Egr | 3 credits |
| CIS 353 | Database | 3 credits |
| Sci. Cognate | Options in Major Notes | 4-5 credits |
| General Education Course | | 3 credits |

6th Semester Winter: 14-15 credits

| | | |
|---------------------------|------------------------|-------------|
| CIS 343 | Struct of Program Lang | 3 credits |
| CIS 457 | Data Comm | 4 credits |
| Sci. Cognate | Options in Major Notes | 4-5 credits |
| Computer Science Elective | | 3 credits |

Spring/Summer Semester: 8-11 credits

| | | |
|--------------------------------------|------------|-------------|
| CIS 490 | Internship | 2-5 credits |
| General Education Courses (Select 2) | | 6 credits |

7th Semester Fall: 13 credits

| | | |
|-------------------------------------|------------------------|-----------|
| CIS 452 | Operating Sys Concepts | 4 credits |
| Computer Science Elective | | 3 credits |
| General Education Course (Select 2) | | 6 credits |

8th Semester Winter: 15 credits

| | | |
|--------------------------------------|---------------|-----------|
| CIS 467 | CS Project | 3 credits |
| WRT 350 | Business Comm | 3 credits |
| Computer Science Elective | | 3 credits |
| General Education Courses (Select 2) | | 6 credits |

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 B-3-241 Mackinac Hall and 101 Eberhard Center. Please call 616-331-6025 or go online at www.gvsu.edu/pcec/advising to schedule an appointment.

Computer Science

Grand Valley State University 2021-22 Catalog

MTH 124 Placement – 4 year program

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> | <u>Category</u> | <u>Completed?</u> |
|-------------------------|-------------------|---------------------------------|-------------------|---------------------|-------------------|--------------------------|-------------------|
| Physical Sciences | | Mathematical Sciences (MTH 124) | | Global Perspectives | | Writing (WRT 130 or 150) | |
| Life Sciences | | Social & Behavioral Sciences | | U.S. Diversity | | SWS #1 | |
| Philosophy & Literature | | Social & Behavioral Sciences | | Issues | | SWS #2 | |
| Arts | | 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

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, wheeleesa@gvsu.edu