

# Cybersecurity

Grand Valley State University 2020-21 Catalog

MTH 110 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 Cybersecurity foundation with a grade of C or above. Foundation courses are designated by an asterisk (\*) on this guide.
- 3) GPA of 2.5 or above in the Cybersecurity foundation.

## 1st Semester Fall: 15-16 credits

MTH 110      Algebra  
WRT 150      Writing Strategies  
    **OR** WRT 120/WRT 130 (may change timeline)  
General Education Courses (Select 2)

## 2nd Semester Winter: 13 or 15 credits

MTH 122 or 124      College Algebra/Precalculus  
\*CIS 162              Computer Science 1  
\*STA 215             Introductory Applied Statistics  
\*COM 201             Speech

## 3rd Semester Fall: 16 credits

CIS 337              Network Systems Management  
\*CIS 258             Introduction to Cybersecurity  
CIS 163              Computer Science 2  
\*MTH 225            Discrete Structures: Computer Science  
General Education Course

## 4th Semester Winter: 16 credits

CIS 241              System-level Programming and Utilities  
CIS 350              Introduction to Software Engineering  
CIS 351              Computer Organization and Assembly Language  
CIS 375              Wireless Networks and Security  
CIS 290              Professional Responsibilities and Practices

## 5th Semester Fall: 15 credits

CIS 331              Data Analysis Tools and Techniques  
CIS 353              Database  
CIS 458              System Security  
CIS 358              Information Assurance  
CJ 315               Principles of Security

## 6th Semester Winter: 16-17 credits

CJ 335              Digital Crime, Media and Culture  
CIS 437              Distributed Computing  
CIS 456              Reverse Engineering and Malware Analysis  
Cyber Elective  
General Education Course

## Spring/Summer Semester: 5-8 credits

CIS 490              Internship  
General Education Course

## 7th Semester Fall: 15 credits

CIS 418              Secure Software Engineering  
CIS 430              Computer and Cyber Forensics  
CIS 455              Applied Cryptography  
WRT 350              Business Communications  
General Education Course

## 8th Semester Winter: 15-17 credits

CIS 468              Cybersecurity Project  
Cyber Elective  
General Education Courses (Select 3)

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) CIS 331, CIS 358 and CJ 335 also fulfill Issues requirements in general education.

## 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 or 124)		Global Perspectives	
Life Sciences		Social & Behavioral Sciences		U.S. Diversity	
Arts		Social & Behavioral Sciences		Issues (CIS 331)	
Philosophy & Literature		Historical Perspectives		Issues (CJ 335)	

- 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. These can be fulfilled via other general education categories.

## PCEC Advisors

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