

Cybersecurity

Grand Valley State University 2020-21 Catalog

MTH 123 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: 14 credits

MTH 123 Trigonometry
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 258 Introduction to Cybersecurity
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 I
CIS 241 System-level Programming and Utilities
CIS 337 Network Systems Management
CIS 290 Professional Responsibilities and Practices
CJ 315 Principles of Security

4th Semester Winter: 14-15 credits

CIS 350 Introduction to Software Engineering
CIS 351 Computer Organization and Assembly Language
CIS 375 Wireless Networks and Security
General Education Course

5th Semester Fall: 15 credits

CIS 331 Data Analysis Tools and Techniques
CIS 353 Database
CIS 458 System Security
CIS 358 Information Assurance
General Education Course

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: 15-16 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 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 123)		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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