

ARTICULATION AGREEMENT GUIDE

Northwestern Michigan College – **A.S.A. Infrastructure and Security**
 Grand Valley State University – **BS in Cybersecurity**

Northwestern Michigan College Courses:

Grand Valley State University Courses:

Michigan Transfer Agreement (MTA) Requirements (30 credits)

Students with the MTA endorsement on their community college transcript have satisfied GVSU's General Education Foundation Requirements and will be required to complete only the General Education Application Requirements of one US-Diversity cultures course, one Global Perspectives cultures course, two Issues courses, and one writing intensive course beyond the MTA. The cultures courses can be completed at NMC as part of the MTA if selecting from courses in the two subsections below. Courses listed below for the MTA also satisfy program requirements at GVSU and/or NMC. For NMC approved MTA courses go to NMC's website. Students without an MTA or MACRAO endorsement must complete GVSU's general education program.

| | | |
|--|-----|---------------------------------|
| 1. Two courses in English Composition | | |
| Choose two from the approved MTA list..... | 8 | General Transfer Credit8 |
| 2. Two courses in Humanities | | |
| PHL 105 or PHL 202..... | 3 | PHI 103 or PHI 3253 |
| Choose one from the approved MTA list not in PHL..... | 3-4 | General Transfer Credit.....3-4 |
| 3. One course in Mathematics | | |
| MTH 131 Intro to Probability and Statistics | 3 | STA 215..... 3 |
| 4. Two courses in Natural Science from different disciplines (one must include a lecture/lab) | | |
| Choose two from the approved MTA list..... | 7-8 | General Transfer Credit.....7-8 |
| 5. Two courses in Social Sciences from different disciplines | | |
| Choose two from the approved MTA list | 6 | General Transfer Credit.....6 |

If needed, complete additional credits in any of the above categories to meet the 30 credit minimum for the MTA.

GVSU's Cultures Requirement: One course in US-Diversity and one course in Global Perspectives

US-Div - Complete one course from the following list:

These courses also satisfy an MTA area: Humanities: HST 111, 112, 211, 225, MUS 111, **Social Sciences:** GEO 108, SOC 201, 211, 220, 260

GP - Complete one course from the following list:

These courses also satisfy an MTA area: Humanities: ART 111, 112, HST 101, 102, 228, HUM 116, ENG 241, 263, 271, **Social Sciences:** ANT 113, GEO 109, PLS 132, 211, PHL 121, SPN 202

| NMC Program Requirements (51 credits) | GVSU Program Requirements (51 credits) |
|---|--|
| * CIT 135: Intro to Programming Using Python.....3 | CIS 162 Computer Science I3 |
| * CIT 195: Application Development + CIT 255: OO Program..... 6 | CIS 163 Computer Science II + CIS General Credit... ..4+2 |
| * CIT 112: Scripting and Automation + CIT 256: Linux Administration.....3+3 | CYB 241: Linux and Python for Cybersecurity.....3+3 |
| * CIT 240: Network Security Management.....3 | CIS 258: Introduction to Cybersecurity.....3 |
| * CIT 264: Cybersecurity Analytics and Threat Analysis + CIS 266: Advanced Enterprise Security.....3 + 3 | CIS 358: Information Assurance + CIS 458: System Security.....3 + 3 |
| CIT 213: Network Technologies+ CIT 160: Cisco Internetworking I+ CIT 161: Cisco Internetworking II + CIT 260: Cisco Internetworking III.....9 | CIS 337: Network Systems Management + CIS 338: Wide Area Network Engineering.....6+3 |
| CIT 263: Cybersecurity Penetration Testing.....3 | CIS 453: Ethical Hacking.....3 |
| * CIT 178: Relational DB + CIT 228: Advanced DB Systems..... 3 | CIS 353: Database 3 |
| CIT 243: Cloud Technologies.....3 | CIS 437: Cloud Computing.....3 |
| * COM 111 Public Speaking | COM 201 Speech |
| * MTH 121: College Algebra | MTH 122: College Algebra |
| *CIT 290: CIT Internship.....3 | CIS 490: Internship.....3 |

Credits at NMC:81

Credits that transfer to GVSU

81

* Required for GVSU's BS in Cybersecurity program. If not transferred, must be completed at GVSU.

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| | |
|------------------------|----|
| Credits at GVSU | 42 |
| Transfer Credits | 81 |

Completion of the BS in Cybersecurity

- Students must maintain a minimum GVSU GPA of 2.0

Degree Requirements (42 credits)

Program Requirements (42 credits)

- AI 201: Introduction to AI (3 credits)
- CIS 290 Professional Responsibilities and Practices (3 credits)
- * CIS 331 Data Analysis Tools and Techniques (3 credits)
- CIS 350 Introduction to Software Engineering (3 credits)
- CIS 375 Wireless Networks and Security (3 credits)
- CIS 418 Secure Software Engineering (3 credits)
- CIS 430 Computer and Cyber Forensics (3 credits)
- CIS 455 Applied Cryptography (3 credits)
- CIS 456 Reverse Engineering and Malware Analysis (3 credits)
- CIS 468 Cybersecurity Project (3 credits)
- CJ 315 Principles of Security (3 credits)
- *CJ 335 Digital Crime, Media, and Culture (3 credits)
- MTH 225 Discrete Structures (3 credits)
- WRT 350 Business Communication (3 credits)

NOTE: No Need for Electives

Program Electives

- CIS 310 Introduction to the Structure and Mechanics of Social Networks (3 credits)
- CIS 335 Data Mining (3 credits)
- CIS 357 Mobile Application Development (3 credits)
- AI 201 Introduction to Artificial Intelligence (3 credits)
- HCC 304 Usability Design and Evaluation (3 credits)
- CIS 373 Pervasive Computing (3 credits)
- CIS 380 Special Topics in Computer Information Systems (1 to 4 credits)
- CIS 451 Computer Architecture (3 credits)
- CIS 453 Ethical Hacking (3 credits)
- CIS 452 Operating Systems Concepts (3 credits)
- CIS 480 Special Topics in Computer Information Systems (1 to 4 credits)
- CJ 408 White-Collar and Corporate Crime (3 credits)
- MTH 312 Cryptography and Privacy (3 credits)

(*) courses that satisfy the issues requirements

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Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both institutions agree to accept transferable courses from each other and from other regionally accredited institutions. NMC courses indicated with an * are required for GVSU's BS in Cybersecurity. Substitutions for these courses must be approved by the GVSU department chair.
Students with the MTA endorsement on their community college transcript have satisfied GVSU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one US-Diversity cultures course, one Global Perspectives cultures course, two Issues courses, and one writing intensive course beyond the MTA. The cultures courses can be completed at NMC as part of the MTA if selecting from the two subsection courses noted above on page 1 of the agreement.
2. *To use the Michigan Transfer Agreement (MTA), students must have an official community college transcript, with the "MTA Satisfied" endorsement sent to GVSU's Admissions Office. Students who do not have "MTA Satisfied" on their community college transcript, will be required to satisfy GVSU's general education requirements as applied to transfer students. The MTA may be completed after admission to GVSU, however, students should inform their advisors or they may be advised to complete additional courses for the general education program.*
3. Only courses with a grade of "C" or better (2.0 on a 4.0 scale) will be accepted for transfer to either institution.
4. Under this agreement, GVSU will waive the 58-hour rule and require that a minimum of 48 credit hours must be completed in GVSU courses, with at least 45 hours in the program at the 300-level or above. Of the last 30 hours completed before graduating, a minimum of 10 credit hours must be in courses offered by GVSU. A minimum of 120 credit hours, completed in-residence or accepted in transfer, is required for graduation.
5. Students must satisfy all admission requirements at the time of application for admission to GVSU, including submitting transcripts from all previously attended colleges. NMC students will receive equal consideration with other students for course registration and financial aid.
6. Graduation Requirements:
 - Students must maintain a minimum cumulative GVSU GPA of 2.0
7. Students are encouraged to contact GVSU's Undergraduate Admissions before applying to GVSU. To facilitate advising and the evaluation of transcripts, bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2026 until August 31, 2029.

This agreement guide is consistent with the 2025-2026 catalog. Students have until summer 2033 to graduate from Grand Valley State University following this agreement guide. In the event that a student does not complete the program within eight years, they may be required to have their credits reevaluated using the requirements of the current articulation guide.

Signatories:

Scott Goethals
Business Academic Chair
Computer Information Technology
Program Coordinator

Marouane Kessentini, Ph.D.
Dean, College of Computing

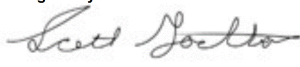
Jennifer Drake, Ph.D.
Provost and Executive VP
for Academic Affairs

Northwestern Michigan College

Grand Valley State University

Grand Valley State University

Signed by:



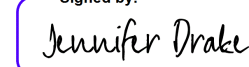
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February 2026

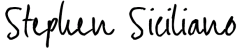
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Signatories (cont'd):

Stephen Siciliano
Vice President for Educational Services

Northwestern Michigan College

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Contacts:

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GVSU Undergraduate Admissions
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