

January 2026
ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Computing, A.A. (GVSU)**
 Grand Valley State University – **BS in Artificial Intelligence**

Grand Rapids Community 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 Foundations Requirements—including the Writing Foundation Area—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 GRCC as part of the MTA if selecting from the two subsection courses noted below. Courses listed below for the MTA also satisfy program requirements at GVSU and/or GRCC. For GRCC approved MTA courses go to GRCC's website. Students without an MTA or MACRAO endorsement must complete GVSU's general education program.

1. A course in English Composition		
EN 101 English Composition I.....	3	WRT 100.0 General Transfer Credit.....
1. A course in English Composition or Communication		
COM 131 – Fundamentals of Public Speaking	3	COM 201 Speech.....
2. A course in Mathematics		
MA 215 Statistics.....	4	STA 215 Statistics (3)+1.....
3. Two courses in Natural Sciences from different disciplines (one lab required)		
Choose two from the approved MTA list.....	7-8	General Transfer Credit.....
4. Two courses in Humanities and Fine Arts from different disciplines		
PL 205 Introduction to Ethics.....	3	PHI 102 Ethics.....
Choose one from the approved MTA list.....	3	General Transfer Credit.....
5. Two courses in Social Sciences from different disciplines		
Choose two from the approved MTA list	6	General Transfer Credit.....

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: COM 235, EN 261, 270, 271, 272, 278, 284, HS 160, 161, 225, 251, MUS 111, 130; **Social Sciences:** AN 280, GST 200, GE 253, 281, SO 254, 260

GP - Complete one course from the following list:

These courses also satisfy an MTA area: Humanities: AT 106, EN 252, FR 232, GR 232, SP 232, HS 101, 102, 120, 121, 215, 230, 290, HU 205, 212, 219, 281, MUS 110; **Social Sciences:** AN 201, 210, GE 135, 210, 235, 269, PS 201, 202

GRCC Program Requirements (45 credits)

GVSU Program Requirements (45 credits)

* CIS 123 Computer Science I.....	4	CIS 162 Computer Science I.....	4
* CIS 223 Computer Science II.....	4	CIS 163 Computer Science II.....	4
* CIS 228 Algorithms and Data Structures.....	3	CIS 263 Data Structures and Algorithms.....	3
* CIS 224 Introduction to Systems Analysis.....	3	CIS 350 Software Engineering.....	3
* CIS 210 - Introduction to Machine Learning (3 hours) AND		CIS 378 - Applied Machine Learning (3 credits) AND	
*CIS 231 - Applied Data Science (3 hours).....	6	CIS 335 - Data Mining (3 credits).....	6
* CIS 110 - Introduction to Artificial Intelligence	3	AI 201 - Introduction to Artificial Intelligence	3
* CIS 270 - Artificial Intelligence for Computer Vision	3	AI 421 - Applied Computer Vision	3
* CIS 240 - Natural Language Processing	3	AI 431 - Natural Language Processing	3
* CIS 202 - Applied Ethics for AI.....	3	AI 411 - AI Ethics and Bias	3
* MA 133 Calculus with Analytic Geometry	5	MTH 201 Calculus	4+1
* MA 245 Discrete Mathematical Structures	4	MTH 225 Discrete Structures: Computer Science.....	3+1
* MA 250 Linear Algebra.....	4	MTH 204 Linear Algebra.....	3+1

Credits at GRCC:75 Credits that transfer to GVSU 75

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

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Grand Rapids Community College – **Pre-Computing, A.A. (GVSU)**

Grand Valley State University – **BS in Artificial Intelligence**

Issues Courses (6 credits)

Take two issues courses to satisfy general education requirements.

Completion of the BS in Artificial Intelligence

- Students must maintain a minimum GVSU GPA of 2.0

Degree Requirements (45 credits)

Program Requirements (27 credits)

Credits at GVSU 45

Transfer Credits 76

CIS 241 - System-level Programming and Utilities (3 credits)

CIS 290 - Professional Responsibilities and Practices (3 credits)

CIS 352 - Operating System Essentials (3 credits)

CIS 457 - Data Communications (3 credits)

CIS 490 - Internship (3 credits)

AI 441 - Edge AI (3 credits)

AI 495 - Artificial Intelligence Senior Project (3 credits)

MTH 205 - Linear Algebra II (3 credits)

WRT 350 - Business Communication (3 credits)

Program Electives (12 credits)

Artificial Intelligence majors must complete four elective courses in a track:

Track: Artificial Intelligence Systems

Required:

AI 445 – ML Operations (3 credits)

Choose 3 from:

AI 402 – Generative AI (3 credits)

AI 451 – Reinforcement Learning (3 credits)

CIS 360 – Infor. Mgmt. and Science (3 credits)

CIS 418 – Secure Software Engineering (3 credits)

SE 413 – Software Testing (3 credits)

SE 422 – Software Arch. and Design (3 credits)

SE 430 – Software Constr. And Delivery (3 credits)

Track: Cybersecurity and Artificial Intelligence

Required:

CIS 258 – Intro to Cybersecurity (3 credits)

CYB 420 – Trustworthy AI (3 credits)

Choose 2 from:

CIS 358 – Information Assurance (3 credits)

CIS 418 – Secure Software Engineering (3 credits)

CIS 453 – Ethical Hacking (3 credits)

CIS 458 – System Security (3 credits)

Track: Edge and Cloud Artificial Intelligence

Required:

CIS 230 – Hardware and Software (3 credits)

CIS 373 – Pervasive Computing (3 credits)

Choose 2 from:

AI 445 - ML Operations (3 credits)

SE 431 – Software Virtualization (3 credits)

CIS 458 – System Security (3 credits)

ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Artificial Intelligence, A.A. (GVSU)**

Grand Valley State University – **BS in Artificial Intelligence**

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. GRCC courses indicated with an * are required for GVSU's BS in Artificial Intelligence. Substitutions for these courses must be approved by the GVSU program coordinator.
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. GRCC 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.

Contacts:

Grand Rapids Community College

Computer Information Systems
Wisner-Bottrall Applied Technology Center
Room 221, Main Campus
143 Bostwick Avenue NE
Grand Rapids, MI 49503
cis@grcc.edu

Grand Valley State University

GVSU Undergraduate Admissions
300 Student Services Building
1 Campus Drive
Allendale, MI 49401
admissions@gvsu.edu

*Please Note: The signed version of the document is kept on file in the GRCC Instructional Support Office. For more information, please contact the Director of Transfer & Articulation Services at 616-234-3183.

ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Computing, A.A. (GVSU)**

Grand Valley State University – **BS in Software Engineering**

Grand Rapids Community 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 Core Requirements—including the Writing Foundation Area—and will be required to complete only the General Education Requirements of one US-Diversity cultures course, one Global Perspectives cultures course, two Issues courses, and one Supplemental Writing Skills course beyond the MTA. The cultures courses can be completed at GRCC as part of the MTA if selecting from the two subsection courses noted below. Courses listed below for the MTA also satisfy program requirements at GVSU and/or GRCC. For GRCC approved MTA courses go to GRCC's website. Students without an MTA or MACRAO endorsement must complete GVSU's general education program.

- | | | |
|--|-----|--|
| 1. A course in English Composition | | |
| EN 101 English Composition I..... | 3 | WRT 100.0 General Transfer Credit.....3 |
| 1. A course in English Composition or Communication | | |
| COM 131 – Fundamentals of Public Speaking | 3 | COM 201 Speech.....3 |
| 2. A course in Mathematics | | |
| MA 215 Statistics..... | 4 | STA 215 Statistics (3)+1.....4 |
| 3. Two courses in Natural Sciences from different disciplines (one lab required for MTA, two labs required for GVSU BS in SE) | | |
| BI 117 or BI 151 or BI 152 or CHM 130 and CHM 131 or GL 101
or PH 125 or PH 245..... | 4-5 | BMS 202 or BIO 120 or BIO 121 or CHM 125+126 or GEO 111
or PHY 220 or PHY 230.....4-5 |
| 4. Two courses in Humanities and Fine Arts from different disciplines | | |
| Choose two from the approved MTA list..... | 6 | General Transfer Credit.....6 |
| 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: COM 235, EN 261, 271, 272, 278, 284, HS 160, 161, 225, 251, MUS 111, 130, PL 207; **Social Sciences:** AN 280, GST 200, GE 253, 281, SO 254, 260

GP - Complete one course from the following list:

These courses also satisfy an MTA area: Humanities: AT 106, EN 252, 270, FR 232, GR 232, SP 232, HS 101, 102, 120, 121, 215, 230, 290, HU 205, 212, 219, 281, MUS 110; **Social Sciences:** AN 201, 210, GE 135, 210, 235, 269, PS 201, 202

GRCC Program Requirements (38 credits)

GVSU Program Requirements (38 credits)

* CIS 123 Computer Science I.....	4	CIS 162 Computer Science I.....	4
* CIS 223 Computer Science II.....	4	CIS 163 Computer Science II.....	4
* CIS 228 Algorithms and Data Structures.....	3	CIS 263 Data Structures and Algorithms.....	3
* CIS 224 Introduction to Systems Analysis.....	3	CIS 350 Software Engineering.....	3
* CIS 171 Database Design and Development	3	CIS 353 Databases	3
* MA 133 Calculus with Analytic Geometry	5	MTH 201 Calculus	4+1
* MA 134 Calculus with Analytic Geometry II	5	MTH 202 Calculus II	4+1
* MA 245 Discrete Mathematical Structures	4	MTH 225 Discrete Structures: Computer Science.....	3+1
* MA 250 Linear Algebra.....	4	MTH 204 - Linear Algebra I	3+1
* CIS 110 Introduction to AI.....	3	AI 201 Introduction to AI.....	3

Credits at GRCC:68 Credits that transfer to GVSU 68

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

ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Computing, A.A. (GVSU)**

Grand Valley State University – **BS in Software Engineering**

Completion of the BS in Computer Science

- Students must maintain a minimum GVSU GPA of 2.0

Credits at GVSU 53

Transfer Credits 68

Major Requirements (53 credits)

Program Requirements (41 credits)

CIS 241 - System-level Programming and Utilities (3 credits)

CIS 290 - Professional Responsibilities and Practices (3 credits)

CIS 350 - Introduction to Software Engineering (3 credits)

CIS 352 - Operating System Essentials (3 credits)

CIS 418 - Secure Software Engineering (3 credits)

CIS 490 - Internship (2 to 5 credits)

SE 413 - Software Testing (3 credits)

SE 422 - Software Architecture and Design (3 credits)

SE 430 - Software Construction and Delivery (3 credits)

SE 437 - Software Quality Assurance (3 credits)

SE 495 - Software Engineering Senior Project (3 credits)

MTH 325 - Discrete Structures: Computer Science 2 (3 credits)

WRT 350 - Business Communication (3 credits)

Complete one course from the following list: see ¹

- MTH 205 - Linear Algebra II (3 credits)
- MTH 465 - Automata and Theory of Computation (3 credits)
- STA 216 - Intermediate Applied Statistics (3 credits)
- STA 318 - Statistical Computing (3 credits)
- STA 323 - Predictive Analytics (3 credits)
- STA 418 - Statistical Computing and Graphics with R (3 credits)

Program Electives (6 credits)

Take **two** courses within a given track; the course tracks are shown below:

- **Track: Intelligent Software Systems**
- **Track: Cloud and Edge Computing**

Issues Courses (6 credits)

Take **two** courses to satisfy general education requirements.

¹ Choose two courses if not taking MA 134 – Calculus with

Analytic Geometry II at GRCC.

ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Computing, A.A.**

Grand Valley State University – **BS in Software Engineering**

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. GRCC courses indicated with an * are required for GVSU's BS in Software Engineering. Substitutions for these courses must be approved by the GVSU department chair.
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. GRCC 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.

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Grand Valley State University

GVSU Undergraduate
Admissions 300 Student Services
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admissions@gvsu.edu

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ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Computing, A.A. (GVSU)**

Grand Valley State University – **BS in Computer Science**

Grand Rapids Community 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 Core Requirements—including the Writing Foundation Area—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 GRCC as part of the MTA if selecting from the two subsection courses noted below. Courses listed below for the MTA also satisfy program requirements at GVSU and/or GRCC. For GRCC approved MTA courses go to GRCC's website. Students without an MTA or MACRAO endorsement must complete GVSU's general education program.

1. A course in English Composition

EN 101 English Composition I..... 3 WRT 100.0 General Transfer Credit.....3

1. A course in English Composition or Communication

COM 131 – Fundamentals of Public Speaking 3 COM 201 Speech.....3

2. A course in Mathematics

MA 215 Statistics.....4 STA 215 Statistics (3)+1.....4

3. Two courses in Natural Sciences from different disciplines (one lab required)

BI 151 or BI 152 or BI 117 or BIO 120 or BIO 121 or BMS 202 or
(CHM 130 and CHM 131) or GL 101 or PH 125 or CHM 125/126 or GEO 111 or PHY 220 or
PH 2458 PHY 2308-9

4. Two courses in Humanities and Fine Arts from different disciplines

Choose two from the approved MTA list..... 6 General Transfer Credit.....6

5. Two courses in Social Sciences from different disciplines

Choose two from the approved MTA list6 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: COM 235, EN 261, 271, 272, 278, 284, HS 160, 161, 225, 251, MUS 111, 130, PL 207; **Social Sciences:** AN 280, GST 200, GE 253, 281, SO 254, 260

GP - Complete one course from the following list:

These courses also satisfy an MTA area: Humanities: AT 106, EN 252, 270, FR 232, GR 232, SP 232, HS 101, 102, 120, 121, 215, 230, 290, HU 205, 212, 219, 281, MUS 110; **Social Sciences:** AN 201, 210, GE 135, 210, 235, 269, PS 201, 202

GRCC Program Requirements (34 credits)

GVSU Program Requirements (34 credits)

* CIS 123 Computer Science I.....4	CIS 162 Computer Science I.....4
* CIS 223 Computer Science II.....4	CIS 163 Computer Science II.....4
* CIS 228 Algorithms and Data Structures.....3	CIS 263 Data Structures and Algorithms.....3
* CIS 224 Introduction to Systems Analysis.....3	CIS 350 Software Engineering.....3
* CIS 171 Database Design and Development3	CIS 353 Databases3
* MA 133 Calculus with Analytic Geometry5	MTH 201 Calculus4+1
* MA 245 Discrete Mathematical Structures4	MTH 225 Discrete Structures.....3+1
* MA 134 or MA 250 see ¹4-5	MTH 202 or MTH 204.....3+1 or 4+1
* CIS 110 Introduction to AI.....3	AI 201 Introduction to AI.....3

Credits at GRCC:64 Credits that transfer to GVSU 64

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

¹ One of MTH 202 Calculus II or MTH 204 Linear Algebra are required for the BS in Computer Science at GVSU.

ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Computing, A.A. (GVSU)**

Grand Valley State University – **BS in Computer Science**

requirements.

Completion of the BS in Computer Science

- Students must maintain a minimum GVSU GPA of 2.0

Major Requirements (56 credits)

Program Requirements (29 credits)

- CIS 241- System-level Programming and Utilities (3 credits)
- CIS 290 - Professional Responsibilities and Practices (3 credits)
- CIS 343 - Structure of Programming Languages (3 credits)
- CIS 351 - Computer Organization (3 credits)
- CIS 452 - Operating Systems Concepts (3 credits)
- CIS 457 - Data Communications (3 credits)
- CIS 467 - Computer Science Project (3 credits)
- CIS 490 – Internship (2 credits)
- MTH 325 - Discrete Structures: Computer Science 2 (3 credits)
- WRT 350 Business Communication (3 credits)

Free Electives (12 credits)

- Select 12 credits of free electives tailored to your interests and career goals, and they will count towards the degree requirements, including any necessary General Education requirements.

Credits at GVSU 56

Transfer Credits 64

Program Electives (9 credits)

Computer science majors must select three electives from the following:

- CIS 335 - Data Mining (3 credits)
- CIS 357 - Mobile Application Development (3 credits)
- CIS 360 - Information Management and Science (3 credits)
- CIS 367 - Computer Graphics (3 credits)
- HCC 304 - Usability Design and Evaluation (3 credits)
- CIS 371 - Web Application Programming (3 credits)
- CIS 373 - Pervasive Computing (3 credits)
- CIS 375 - Wireless Networks and Security (3 credits)
- CIS 376 - Game Programming Techniques and Algorithms (3 credits)
- CIS 378 - Applied Machine Learning (3 credits)
- CIS 380 - Special Topics in Computer Information Systems (1 to 4 credits)
- CIS 418 - Secure Software Engineering (3 credits)
- CIS 430 - Computer and Cyber Forensics (3 credits)
- CIS 443 - Software Development Tools (3 credits)
- CIS 451 - Computer Architecture (3 credits)
- CIS 453 - Ethical Hacking (3 credits)
- CIS 455 - Applied Cryptography (3 credits)
- CIS 458 - System Security (3 credits)
- CIS 461 - Compiler Design and Construction (3 credits)
- CIS 465 - Automata and Theory of Computation (3 credits)
- CIS 480 - Special Topics in Computer Information Systems (1 to 4 credits)

Issues Courses (6 credits)

Take two issues courses to satisfy general education

September 2025
ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Computing, A.A.**
Grand Valley State University – **BS in Computer Science**

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Grand Valley State University
GVSU Undergraduate Admissions
300 Student Services Building
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Allendale, MI 49401
admissions@gvsu.edu

*Please Note: The signed version of the document is kept on file in the GRCC Instructional Support Office. For more information, please contact the Director of Transfer & Articulation Services at 616-234-3183.

January 2026
ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Cybersecurity, A.A. (GVSU)**
 Grand Valley State University – **BS in Cybersecurity**

Grand Rapids Community 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 Core Requirements—including the Writing Foundation Area—and – including the Writing Foundation Area - 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 GRCC as part of the MTA if selecting from the two subsection courses noted below. Courses listed below for the MTA also satisfy program requirements at GVSU and/or GRCC. For GRCC approved MTA courses go to GRCC's website. Students without an MTA or MACRAO endorsement must complete GVSU's general education program.

- 1. A course in English Composition**
 EN 101 English Composition I _____ 3 WRT 100.0 General Transfer Credit _____ 3
- 2. A course in English Composition or Communication**
 COM 131 – Fundamentals of Public Speaking _____ 3 COM 201 Speech _____ 3
- 3. A course in Mathematics**
 MA 110 College Algebra _____ 4 MTH 122 College Algebra (3) + 1 _____ 4
- 4. Two courses in Natural Sciences from different disciplines (one lab required)**
 Choose two from the approved MTA list _____ 7-8 General Transfer Credit _____ 7-8
- 5. Two courses in Humanities and Fine Arts from different disciplines**
 Choose two from the approved MTA list _____ 6 General Transfer Credit _____ 6
- 6. 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: COM 235, EN 261, 271, 272, 278, 284, HS 160, 161, 225, 251, MUS 111, 130, PL 207; **Social Sciences:** AN 280, GST 200, GE 253, 281, SO 254, 260

GP - Complete one course from the following list:

These courses also satisfy an MTA area: Humanities: AT 106, EN 252, 270, FR 232, GR 232, SP 232, HS 101, 102, 120, 121, 215, 230, 290, HU 205, 212, 219, 281, MUS 110; **Social Sciences:** AN 201, 210, GE 135, 210, 235, 269, PS 201, 202

GRCC Program Requirements (36 credits)

GVSU Program Requirements (36 credits)

CIS 123 Computer Science I.....4	CIS 162 Computer Science I.....4
*CIS 223 Computer Science II.....4	CIS 163 Computer Science II.....4
*CIS 232 Linux II.....3	CYB 241 Linux and Python for Cybersecurity.....3
*CIS 171 Database Design and Development.....3	CIS 353 Databases.....3
*CIS 178 Principles of Info Security.....3	CIS 258 Introduction to Cybersecurity.....3
CIS 233 Network+.....3	CIS 337 Network Systems Management.....3
* CIS 224 Introduction to Systems Analysis.....3	CIS 350 Software Engineering.....3
CIS 278 Pen Testing.....3	CIS 453 Ethical Hacking.....3
*CIS 269 CCNA-CyberOps.....3	CIS 458 System Security.....3
*CIS 110 Introduction to AI.....3	AI 201 Introduction to AI.....3
*MA 215 Statistics.....4	STA 215 Intro Applied Statistics.....3 + 1

Credits at GRCC:66

Credits that transfer to GVSU

66

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

ARTICULATION AGREEMENT GUIDEGrand Rapids Community College – **Pre-Cybersecurity, A.A. (GVSU)**Grand Valley State University – **BS in Cybersecurity****Completion of the BS in Cybersecurity**

- Students must maintain a minimum GVSU GPA of 2.5.

Credits at GVSU**54****Major Requirements****(54 credits)****Transfer Credits****66****Program Requirements (48 credits)**

- CIS 290 Professional Responsibilities and Practices (3 credits)
- *CIS 331 Data Analysis Tools and Techniques (3 credits)
- CIS 351 Computer Organization (3 credits)
- CIS 358 Information Assurance (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 437 Cloud Computing (3 credits)
- CIS 455 Applied Cryptography (3 credits)
- CIS 456 Reverse Engineering and Malware Analysis (3 credits)
- CIS 468 Cybersecurity Project (3 credits)
- CIS 490 Internship (3 credits)
- CJ 315 Principles of Security (3 credits)
- *CJ 335 Digital Crime, Media, and Culture (3 credits)
- MTH 225 Discrete Math (3 credits)
- WRT 350 Business Communication (3 credits)

Program Electives (6 credits)

- CIS 310 Introduction to the Structure and Mechanics of Social Networks (3 credits)
- CIS 335 Data Mining (3 credits)
- CIS 338 Wide Area Network Engineering (3 credits)
- CIS 357 Mobile Application Development (3 credits)
- CIS 365 Applied Artificial Intelligence (3 credits)
- CIS 368 Usability Design and Evaluation (3 credits)
- CIS 371 Web Application Programming (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 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)

Any 300-level or above AI, SE, CIS, or CYB course not already taken (3 credits)

(*) courses that satisfy the issues requirements

January 2026

ARTICULATION AGREEMENT GUIDE

Grand Rapids Community College – **Pre-Cybersecurity, A.A. (GVSU)**

Grand Valley State University – **BS in Cybersecurity**

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. GRCC courses indicated with an * are required for GVSU's BS in Cybersecurity. Substitutions for these courses must be approved by the GVSU program coordinator.
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. GRCC 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.

Contacts:

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admissions@gvsu.edu

*Please Note: The signed version of the document is kept on file in the GRCC Instructional Support Office. For more information, please contact the Director of Transfer & Articulation Services at 616-234-3183.