# **ARTICULATION AGREEMENT GUIDE**

## Oakland Community College – **Computer Information Systems - Cybersecurity Certificate** Eastern Michigan University – **BS in Cybersecurity**

Michigan Transfer Agreement (MTA) Requirements (30 credits)         Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core         Requirements and wilb be required to complete only the General Education Application Requirements of one Perspectives on a         Diverse World course, one Learning beyond the Classroom experience, and a writing intensive course in the major. Courses listed         below for the MTA also satisfy program requirements at EMU and/or OCC. For OCC approved MTA courses go to OCC's website.         Students without an MTA or MACRAO endorsement must complete EMU's general education program.         1. A course in English Composition or Communication         Choose one from the approved MTA list.       3         3. A course in Mathematics       4         * MAT 1580       Statistics       4         Statistics       4       STAT 170       Elementary Statistics (3)+1       4         4. Two courses in Natural Sciences from different disciplines       6       General Transfer Credit       7-8         Choose one from the approved MTA list.       6       General Transfer Credit       6         6. Two courses in Natural Sciences from different disciplines       6       General Transfer Credit       6         17 exedd, complete additional credits in any of the above categories to meet the 30 credit minimum for the MTA.       8       Coose two from the approved MTA list. <td< th=""><th>Oakland Community College Courses:</th><th>Eastern Michigan University Courses:</th></td<>	Oakland Community College Courses:	Eastern Michigan University Courses:			
Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core         Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World carbon general education Application Requirements of one Perspectives on a Diverse World Hc Classrow, and a writing intensive course in the major. <i>Courses</i> listed below for the MTA also satisfy program requirements at EMU and/or OCC. For OCC approved MTA courses go to OCC's website.         Students without an MTA or MACRAO endorsement must complete EMU's general education program.       1. A course in English Composition or Communication         Choose one from the approved MTA list.       3       General Transfer Credit.       3         3. A course in Mathematics       4       STAT 170       Elementary Statistics (3)+1	Michigan Transfer Agreement (MTA) Requirements (3	0 credits)			
Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a         Diverse World course, one Learning beyond the Classroom experience, and a writing intensive course in the major. Courses listed         Below for the MTA alos satisfy program requirements at EMU and/or OCC, For OCC approved MTA courses go to OCC's website.         Students without an MTA or MACRAO endorsement must complete EMU's general education program.         1. A course in English Composition         Choose one from the approved MTA list.       3         3. A course in Mathematics         * MAT 1580       Statistics         4. Two courses in Natural Sciences from different disciplines (one lab required)         Choose one from the approved MTA list.       7-8         5. Two courses in Natural Sciences from different disciplines       6         Choose two from the approved MTA list.       6         6       General Transfer Credit         7-8       Choose two from the approved MTA list.         7-8       General Transfer Credit         8       Two courses in Social Sciences: from different disciplines         9       Choose two from the approved MTA list.         6       General Transfer Credit         16       Heeded, complete additional credits in any of the above categories to meet the 30 credit minimum for the MTA.         EMU's Perspectives on a Diverse					
Diverse World course, one Learning beyond the Classroom experience, and a writing intensive course in the major. <u>Courses listed below for the MTA also satisfy program requirements at EMU and/or OCC</u> . For OCC approved MTA courses go to OCC's website.         Students without an MTA or MACRAO endorsement must complete EMU's general education program.         A course in English Composition Choose one from the approved MTA list.       3         General Transfer Credit.       3         A course in Mathematics       3         MAT 1580 Statistics       4         Statistics       4         Statistics       4         Strocourses in Natural Sciences from different disciplines (one lab required)         Choose one from the approved MTA list       7-8         General Transfer Credit       6         General Transfer Credit       6         Choose two from the approved MTA list       6         General Transfer Credit       6         Choose two from the approved MTA list       6         General Transfer Credit       6         Ineeded, complete additional credits in any of the above categories to meet the 30 credit minimum for the MTA.         EMU's Perspectives on a Diverse World requirement: Complete <u>one</u> course from the following list:         These courses also satisfy an MTA area: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; 1550; 2620; POL 2530, 2560					
below for the MTA also satisfy program requirements at EMU and/or OCC.       For OCC approved MTA courses go to OCC's website.         Students without an MTA or MACRAO endorsement must complete EMU's general education program.       1. A course in English Composition         Choose one from the approved MTA list.       3       General Transfer Credit.       3         2. A course in English Composition or Communication       General Transfer Credit.       3         3. A course in Mathematics       4       STAT 170       Elementary Statistics (3)+1       4         4. Two courses in Natural Sciences from different disciplines       General Transfer Credit.       7-8         5. Two courses in Natural Sciences from different disciplines       General Transfer Credit.       6         6. Two courses in Social Sciences from different disciplines       General Transfer Credit.       6         6. Two courses in Social Sciences from different disciplines       General Transfer Credit.       6         6. These courses also satisfy an MTA are: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620         These courses also satisfy an MTA are: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; INSU 1585; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620         These courses also satisfy an MTA are: Communication: COM 2290; Natural Sc					
Students without an MTA or MACRAO endorsement must complete EMU's general education program.       1. A course in English Composition         Choose one from the approved MTA list.       3       General Transfer Credit.       3         2. A course in English Composition or Communication Choose one from the approved MTA list.       3       General Transfer Credit.       3         3. A course in Mathematics       4       STAT 170       Elementary Statistics (3)+1					
1. A course in English Composition       3       General Transfer Credit.       3         2. A course in English Composition or Communication       3       General Transfer Credit.       3         3. A course in Mathematics       3       General Transfer Credit.       3         3. A course in Mathematics       3       General Transfer Credit.       3         4. Two courses in Natural Sciences from different disciplines (one lab required)       4       4         Choose one from the approved MTA list.       7-8       General Transfer Credit.       7-8         5. Two courses in Humanities and Fine Arts from different disciplines       6       General Transfer Credit.       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit.       6         7. Burger Spectives on a Diverse World requirement: Complete one course from the following list:       7       7         7. These courses also satisfy an MTA area: Communication: COM 2290; Natural Science: BIO 1500; Humanities:       ENG 1610, 2540, 2570, 115 1520, 115 1520, 115 1520, 115 1520, 2500, 2610; SOC 2620         7. These courses apply, but do not satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2560       7       7         0CC Cybersecurity Certificate Program Requirements (36 credits)       1       1       111 10       Concepts of Network Business Tech (3)+1       4         1* CIS 160					
Choose one from the approved MTA list       3       General Transfer Credit       3         2. A course in English Composition or Communication Choose one from the approved MTA list       3       General Transfer Credit       3         3. A course in Mathematics       4       STAT 170       Elementary Statistics (3)+1       4         4. Two courses in Natural Sciences from different disciplines (one lab required) Choose one from the approved MTA list       7-8       General Transfer Credit       7-8         5. Two courses in Natural Sciences 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         7. Bese courses also satisfy an MTA area: Communication: COM 2290; Natural Science BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; HIS 1550; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620       These courses apply, but do not satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2610; SOC 2620         OCCC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1600 Introduction to Secure Programming       3       COSC 146 General Transfer Credit       4         1* CIS 1620 Introduction to Cryptography.       4       IA 103       Information Security Overview (3)+1       4         1* CIS 1620 Introduction to Cryptogra		- 5			
2. A course in English Composition or Communication Choose one from the approved MTA list		General Transfer Credit			
Choose one from the approved MTA list       3       General Transfer Credit       3         3. A course in Mathematics       *       MAT 1580       Statistics       4       STAT 170       Elementary Statistics (3)+1       4         4. Two courses in Natural Sciences from different disciplines       (one lab required)       7-8       General Transfer Credit       7-8         5. Two courses in Numanities and Fine Arts from different disciplines       6       General Transfer Credit       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit       6         7. House statisty an MTA area: Communication: COMplete one course from the following list:       7       7       7         7. These courses apply, but do not satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2610; Humanities: ENG 1610, 2540, 2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; PIS 1520; CPL 2530, 2610; Humanities; ENG 1610, 2540, 2570; HIS 1520;					
3. A course in Mathematics       * MAT 1580       Statistics       4       STAT 170       Elementary Statistics (3)+1       4         4. Two courses in Natural Sciences from different disciplines (one lab required)       7-8       General Transfer Credit.       7-8         5. Two courses in Humanities and Fine Arts from different disciplines       6       General Transfer Credit.       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit.       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit.       6         6. Two courses on a Diverse World requirement: Complete one course from the following list:       7       7       7         7.8 Stock to from the approved MTA list       6       General Transfer Credit.       6       6         EMU's Perspectives on a Diverse World requirement: Complete one course from the following list:       7       8       7       8       7       8       6       6       6       6       6       6       6       6       6       7       8		General Transfer Credit			
* MAT 1580       Statistics       4       STAT 170       Elementary Statistics (3)+1       4         4. Two courses in Natural Sciences from different disciplines (one lab required)       7-8       General Transfer Credit       7-8         5. Two courses in Humanities and Fine Arts from different disciplines       General Transfer Credit       6       General Transfer Credit       6         6. Two courses in Social Sciences from different disciplines       General Transfer Credit       6       6         7. By courses on a Diverse World requirement: Complete one course from the 100wing 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.       6       EMU's Perspectives on a Diverse World requirement: Complete one course from the following list:         These courses also satisfy an MTA area: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620         These courses apply, but do not satisfy the MTA: BUS 2150; PSY 2730; SOC 2630, 2650         OC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1600 Fundamentals of Cybersecurity       4       IT 110       Concepts of Network Business Tech (3)+1       4         18 Clo 160 brudamentals of Cybersecurity       4       ISAC 200       Intro ducrito Cryptanalysis and G					
<ul> <li>4. Two courses in Natural Sciences from different disciplines (one lab required) Choose one from the approved MTA list</li></ul>		STAT 170 Elementary Statistics (3)+14			
Choose one from the approved MTA list		le lab required)			
5. Two courses in Humanities and Fine Arts from different disciplines       6       General Transfer Credit.       6         6. Two courses in Social Sciences from different disciplines       6       General Transfer Credit.       6         1f needed, complete additional credits in any of the above categories to meet the 30 credit minimum for the MTA.       6       General Transfer Credit.       6 <i>EMU's Perspectives on a Diverse World requirement: Complete one course from the following list:</i> 7       7         These courses also satisfy an MTA area: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620       7         OFCC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1300 Networking Concepts       4       IT 110       Concepts of Network Business Tech (3)+1       4         CIS 1600 Fundamentals of Cybersecurity       4       IT 110       Concepts of Network Business Tech (3)+1       4         CIS 1620 Introduction to Cryptography.       4       IX 103       Information Security Overview (3)+1       4         CIS 2635 Microsoft Windows Server Admin       3       IA 212       Open Source Platform & Network       3         Complete administration of Comp Systems.       3         Concept		General Transfer Credit7-8			
Choose two from the approved MTA list       6       General Transfer Credit       6         6. Two courses in Social Sciences from different disciplines       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.       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.       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.       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.       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.       6       General Transfer Credit       6         If needed, complete additional credits in any of the above categories to meet the 30 credits in any of the above categories to meet the 30 credit minimum for the MTA.       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.       6       General Transfer Credit       6       6         It is 120, NUS 1585, Social Sciences anyly, but do not satisfy the MTA: BUS 2150; PSY 2730;		lines			
6. Two courses in Social Sciences from different disciplines       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.       6       General Transfer Credit.       6 <i>EMU's Perspectives on a Diverse World requirement: Complete <u>one</u> course from the following list:       7       7       7         <i>These courses also satisfy an MTA area:</i>       Communication:       COM 2290; <u>Natural Science:</u>       80 1500; <u>Humanities</u>:       ENG 1610, 2540, 2570; HIS 1520; MUS 1585; <u>Social Sciences:</u>       ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620         These courses apply, but do <u>not satisfy the MTA:</u>       BUS 2150; PSY 2730; SOC 2530, 2560       7         OCC Cybersecurity Certificate Program Requirements (36 credits)       1       1110       Concepts of Network Business Tech (3)+1</i>	Choose two from the approved MTA list	General Transfer Credit			
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.         EMU's Perspectives on a Diverse World requirement: Complete <u>one</u> course from the following list:         These courses also satisfy an MTA area: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620         These courses apply, but do <u>not</u> satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2560         OCC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1300 Networking Concepts       4         18* CIS 1600 Fundamentals of Cybersecurity       4         14* CIS 1600 Fundamentals of Cybersecurity       4         15* CIS 1600 Fundamentals of Cybersecurity       4         14* CIS 1620 Introduction to Cryptography       4         15* CIS 1600 Fundamentals of Cybersecurity       4         14* CIS 1620 Introduction to Cryptography       4         15* CIS 1600 Fundamentals of Cybersecurity       4         16* CIS 1620 Introduction to Cryptography       4         16* CIS 1620 Introduction to Cryptography       4         15X C200       General Transfer Credit         3* CIS 2535 Microsoft Windows Server Admin       3         3* CIS					
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EMU's Perspectives on a Diverse World requirement: Complete one course from the following list:         These courses also satisfy an MTA area: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620         These courses apply, but do not satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2560         OCC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1300 Networking Concepts         4         CONC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1300 Networking Concepts         4         COSC 146 General Transfer Credit         3         COSC 000 General Transfer Credit         4         COSC 000 General Transfer Credit         4 <td></td> <td></td>					
These courses also satisfy an MTA area: Communication: COM 2290; Natural Science: BIO 1500; Humanities: ENG 1610, 2540, 2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620         These courses apply, but do not satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2560         OCC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1300 Networking Concepts					
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OCC Cybersecurity Certificate Program Requirements (36 credits)         1* CIS 1300 Networking Concepts.       4       IT 110       Concepts of Network Business Tech (3)+1       4         CIS 1550 Introduction to Secure Programming       3       COSC 146 General Transfer Credit       3         1* CIS 1600 Fundamentals of Cybersecurity       4       IA 103       Information Security Overview (3)+1       4         CIS 1610 Data Security       4       COSC 000 General Transfer Credit       4         * CIS 1620 Introduction to Cryptography.       4       ISAC 240       Intro to Cryptanalysis and Generic Attacks (3)+14         * CIS 1630 Security Policy, Legal, Ethics and Compliance       3       IA 212       Open Source Platform & Network       3         * CIS 2434 Introduction to Linux and Unix Admin       3       IA 212       Open Source Platform & Network       3         * CIS 2838 System Security       4       ISAC 000       sub for Restricted Elective       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4	2570; HIS 1520; MUS 1585; Social Sciences: ANT 1540; GEO 1520; H	IS 1520, 1550, 2620; POL 2530, 2610; SOC 2620			
1* CIS 1300 Networking Concepts       4       IT 110       Concepts of Network Business Tech (3)+1       4         CIS 1550 Introduction to Secure Programming       3       COSC 146 General Transfer Credit       3         1* CIS 1600 Fundamentals of Cybersecurity       4       COSC 000 General Transfer Credit       4         CIS 1610 Data Security       4       COSC 000 General Transfer Credit       4         * CIS 1620 Introduction to Cryptography       4       ISAC 240       Intro to Cryptanalysis and Generic Attacks (3)+14         * CIS 1630 Security Policy, Legal, Ethics and Compliance       3       IA 212       Open Source Platform & Network       3         * CIS 2835 Microsoft Windows Server Admin       3       IA 202       Risk-Vulnerability Analysis (3)+1       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4	These courses apply, but do not satisfy the MTA: BUS 2150; PSY 27	30; SOC 2530, 2560			
1* CIS 1300 Networking Concepts       4       IT 110       Concepts of Network Business Tech (3)+1       4         CIS 1550 Introduction to Secure Programming       3       COSC 146 General Transfer Credit       3         1* CIS 1600 Fundamentals of Cybersecurity       4       COSC 000 General Transfer Credit       4         CIS 1610 Data Security       4       COSC 000 General Transfer Credit       4         * CIS 1620 Introduction to Cryptography       4       ISAC 240       Intro to Cryptanalysis and Generic Attacks (3)+14         * CIS 1630 Security Policy, Legal, Ethics and Compliance       3       IA 212       Open Source Platform & Network       3         * CIS 2835 Microsoft Windows Server Admin       3       IA 202       Risk-Vulnerability Analysis (3)+1       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4	OCC Cybersecurity Certificate Program Requirements	s (36 credits)			
CIS 1550 Introduction to Secure Programming       3       COSC 146 General Transfer Credit       3         1* CIS 1600 Fundamentals of Cybersecurity       4       IA 103       Information Security Overview (3)+1       4         CIS 1610 Data Security       4       COSC 000 General Transfer Credit       4         * CIS 1620 Introduction to Cryptography       4       ISAC 240       Intro to Cryptanalysis and Generic Attacks (3)+14         * CIS 1630 Security Policy, Legal, Ethics and Compliance       3       IA 212       Open Source Platform & Network       3         * CIS 2535 Microsoft Windows Server Admin       3       IA 202       Risk-Vulnerability Analysis (3)+1       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4					
1* CIS 1600 Fundamentals of Cybersecurity       4       IA 103       Information Security Overview (3)+1       4         CIS 1610 Data Security       4       COSC 000       General Transfer Credit       4         * CIS 1620 Introduction to Cryptography       4       ISAC 240       Intro to Cryptanalysis and Generic Attacks (3)+14         * CIS 1630 Security Policy, Legal, Ethics and Compliance       3       IA 212       Open Source Platform & Network       3         * CIS 2434 Introduction to Linux and Unix Admin       3       IA 212       Open Source Platform & Network       3         * CIS 2535 Microsoft Windows Server Admin       3       IA 244       Administration of Comp Systems       3         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4					
CIS 1610 Data Security       4       COSC 000 General Transfer Credit       4         * CIS 1620 Introduction to Cryptography	<b>v v</b>				
* CIS 1620 Introduction to Cryptography					
* CIS 1630 Security Policy, Legal, Ethics and Compliance3       ISAC 000       sub for LEGL 320       3         * CIS 2434 Introduction to Linux and Unix Admin       3       IA 212       Open Source Platform & Network       3         * CIS 2535 Microsoft Windows Server Admin       3       IA 244       Administration of Comp Systems       3         * CIS 2838 System Security       4       IA 202       Risk-Vulnerability Analysis (3)+1       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4 <b>EMU Requirements and Electives that May be Taken</b> at OCC or EMU (12 credits)       1       1         * CIS 1310 CCNA Studies II       4       IX 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4					
* CIS 2434 Introduction to Linux and Unix Admin       3       IA 212       Open Source Platform & Network       3         * CIS 2535 Microsoft Windows Server Admin       3       IA 244       Administration of Comp Systems       3         * CIS 2838 System Security       4       IA 202       Risk-Vulnerability Analysis (3)+1       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4 <b>EMU Requirements and Electives that May be Taken</b> at OCC or       EMU (12 credits)         * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4					
* CIS 2535 Microsoft Windows Server Admin       3       IA 244       Administration of Comp Systems       3         * CIS 2838 System Security       4       IA 202       Risk-Vulnerability Analysis (3)+1       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         EMU Requirements and Electives that May be Taken       at OCC or EMU (12 credits)       1       150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4					
* CIS 2838 System Security       4       IA 202       Risk-Vulnerability Analysis (3)+1       4         * CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         EMU Requirements and Electives that May be Taken at OCC or EMU (12 credits)       * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4					
* CIS 2845 Computer Forensics       4       ISAC 000       sub for Restricted Elective       4         EMU Requirements and Electives that May be Taken at OCC or EMU (12 credits)         * CIS 1310 CCNA Studies II       4       IT 150       Networking I (3)+1       4         * CIS 2111 Systems Analysis and Design (UML)       4       ISAC 000       sub for Restricted Elective       4	* CIS 2838 System Security4				
EMU Requirements and Electives that May be Taken at OCC or EMU (12 credits) * CIS 1310 CCNA Studies II					
*CIS 1310 CCNA Studies II					
*CIS 2111 Systems Analysis and Design (UML)					
Credits at OCC:					

\* Required for EMU's BS in Information Assurance and Cyber Defense program. If not transferred, must be completed at EMU. 1 Completion or transfer credit of IA 103 (CIS 1600) and IT 110 (CIS 1300) with a grade of B- or above is required for admission.

# **ARTICULATION AGREEMENT GUIDE**

Oakland Community College – **Computer Information Systems - Cybersecurity Certificate** Eastern Michigan University – **BS in Cybersecurity** 

## Completion of the BS in Information Assurance and Cyber Defense

- Completion or transfer credit of IA 103 (CIS 1600) and IT 110 (CIS 1300) with a grade of B- or above is required for admission.
- All students must take at least 45 credits at the 300 level or above in the IA/CD program.
- Students must maintain a minimum EMU GPA of 2.5.

### Major Requirements (48

## (48 credits)

### Program Requirements (39 credits)

	riogram	Trequirements (55 creatis)	
	EECE 262	2 Engineering Algorithmic Constructions	3
	IA 322	Managing Security Projects	3
1	IA 329W	Policy Development in Information Assurance	3
	IA 385	Database & Web Application Security	3
	IA 400	Malware Analysis and Reverse Engineering	3
	IA 427	Digital Forensics	3
	IA 445	Ethical Hacking and Offensive Security	3
	IA 455	Incident Response	3
	IA 462	Adv Operating Systems Security and Admin	3
	IA 473	Network Forensics and Analytics	3
	IA 495	Capstone	3
	<b>ISAC 350</b>	Network Security	
		Software Assurance	

#### **Restricted Electives (9 credits)**

Must complete at least 9 credit in this area at the 300+ level to meet 45 credits in the major at the 300+level at EMU

- <sup>2</sup> IA 387L4 Cooperative Education (3)
  - IA 425 Cyber Crime Investigation (3)
  - IA 428 Digital Forensics II (3)
  - IA 471 Data Security and Privacy (3)
  - IA 474 Applied Data Mining for Info Assurance (3)
  - IA 475 Advanced Topics in Information Security (3)
  - IA 476 Enterprise Security Analytics (3)
  - ISAC 317 IoT and Embedded Systems Security (3)
  - ISAC 417 Modern Vehicle Technology & Cyber Security (3)
  - IT 319 Introduction to Human-Computer Interaction (3)
  - IT 321 Web Server Administration and Development (3)
  - IT 356 Managing Virtualization and Cloud Computing (3)
  - IT 375 Wireless Networks Administration (3)

Any 300 level or above IA, IT, COSC, or CIS course not already taken (3)

### **LBC Requirement**

Students must complete one Learning Beyond the Classroom course or noncredit experience offered by EMU. Consult your advisor for options.

Credits at EMU:	
Transfer Credits	76
Total Credits:	

1 Fulfills EMU's Writing Intensive in the Major requirement 2 Fulfills EMU's Learning Beyond the Classroom requirement

## **ARTICULATION AGREEMENT GUIDE**

## Oakland Community College – **Computer Information Systems - Cybersecurity Certificate** Eastern Michigan University – **BS in Cybersecurity**

#### Additional Information:

- Each institution will determine the satisfaction of their individual program and degree requirements. Both
  institutions agree to accept transferrable courses from each other and from other regionally accredited institutions.
  OCC courses indicated with an \* are required for EMU's BS in Cybersecurity. Substitutions for these courses must
  be approved by the EMU program coordinator.
- 2. Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one "Perspectives on a Diverse World" course, one "Learning Beyond the Classroom" experience, and a "Writing Intensive" course in the major. The Perspectives on a Diverse World requirement may be transferred to EMU.

To use the Michigan Transfer Agreement (MTA), students must have an official community college transcript, with the "MTA Satisfied" endorsement sent to EMU's Admissions Office. Students who do not have "MTA Satisfied" on their community college transcript, will be required to satisfy EMU's general education requirements as applied to transfer students. The MTA may be completed after admission to EMU, however, students should inform their advisors or they may be advised to complete additional courses for the general education program. If already on the transcript, the MACRAO designation will be accepted at EMU after August 2019.

- 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, EMU will waive the 60-hour rule and require that a minimum of 48 credit hours must be completed in EMU 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 EMU. A minimum of 124 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 EMU, including submitting transcripts from all previously attended colleges. OCC students will receive equal consideration with other students for course registration and financial aid.
- 6. Students must meet the following requirement to be admitted to the IACD program:
  - Completion or transfer credit of IA 103 (CIS 1600) and IT 110 (CIS 1300) with a grade of B- or above.
- 7. Graduation Requirements:
  - Students can not apply courses at the 300 level or above to this program if not taken at EMU
  - All students must take at least 45 credits at the 300 level or above in the IACD program
  - Students must maintain a minimum cumulative EMU GPA of 2.5.
- 8. Students are encouraged to contact EMU's Undergraduate Admissions before applying to EMU. To facilitate advising and the evaluation of transcripts, bring a copy of this articulation guide to all advising sessions.

#### Effective Date: September 1, 2021 until August 31, 2024.

This is an update to a renewal of an agreement made in September 2009, extended in 2012 and renewed in September 2017. This agreement is consistent with the 2023-2024 catalog. Students have until summer 2031 to graduate from Eastern Michigan University following this agreement guide. In the event that a student does not complete the program within seven years, they may be required to have their credits reevaluated using the requirements of the current articulation guide.

#### Contacts:

**Oakland Community College** Auburn Hills: 248.232.4350 Royal Oak: 248.246.2464 Southfield: 248.233.2750 Highland Lakes: 248.942.3050 Orchard Ridge: 248.522.3450 Eastern Michigan University Undergraduate Admissions 220 Student Center 734.487.6453; <u>transfer\_admissions@emich.edu</u> Schedule an appointment