

Post-Secondary Credit Agreement
(2+2+2) Program of Study
School Year: 2023-2024

Davenport University

CTE Agency: Michigan Department of Education - Office of Career and Technical Education

State-Approved CTE Program Name:

COMPUTER PROGRAMMING/PROGRAMMER

Secondary Program CIP Code Number:

11.0201

PSN Number from CTEIS System:



| Freshman - 9th grade | | Sophomore - 10th grade | | Junior - 11th grade | | Senior - 12th grade | |
|----------------------|----------------------|--|--|-------------------------------------|--------------|-------------------------------------|----------------|
| 1st Semester | 2nd Semester | 1st Semester | 2nd Semester | 1st Semester | 2nd Semester | 1st Semester | 2nd Semester |
| English 9 | English 9 | English 10 | English 10 | English 11 | English 11 | English 12 | English 12 |
| Algebra I | Algebra I | Geometry | Geometry | Algebra II | Algebra II | Math Credit | Math Credit |
| Biology | Biology | Chemistry or Physics | Chemistry or Physics | Civics/Econ | Civics/Econ | Science Credit | Science Credit |
| US History/Geography | US History/Geography | World History/Geography | World History/Geography | CTE COMPUTER PROGRAMMING/PROGRAMMER | | CTE COMPUTER PROGRAMMING/PROGRAMMER | |
| PE/Health | PE/Health | Fine Arts/Music/Visual/ Performing/and Applied Arts | Fine Arts/Music/Visual/ Performing/and Applied Arts | | | | |
| World Language | World Language | World Language | World Language | | | | |

Davenport University Degree:

**BS, COMPUTER INFORMATION SYSTEMS
 WEB & MOBILE DEVELOPMENT SPECIALTY**

Davenport University CIP Code:

11.0801

| Grade 13 | | | | Grade 14 | | | |
|--------------|--|-------------------------------------|--|---------------|--------------------------------|-----------------------|-------------------------------------|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACES100 | Achieving Career and Education Success | CISP247 | Database Design | CSCI312 | Data Structures and Algorithms | BUSN210 | Professional Ethics |
| CISP111 | Requirements Planning and Development | COMM120 | Presentation Techniques | MGMT211 | Management Foundations | CISP220 | Web Page Applications |
| CSCI231 | Introduction to Programming | CSCI232 or CSCI234 or CSCI239 | Object-Oriented Programming with C++ or Object-Oriented Programming with C# or Object-Oriented Programming with Java | SOSC201 | Diversity in Society | CISP309 | Database Systems |
| ENGL109 | Composition | ENGL110 | Advanced Composition | Open Elective | | MATH140 or MATH215 | Finite Mathematics or Calculus I |
| MATH120 | College Mathematics | MATH150 | Pre-calculus | Open Elective | | STAT220 | Introduction to Statistics |

| Grade 15 | | | | Grade 16 | | | |
|-----------------------|---|---------------|-----------------------------------|-----------------------|---|---------------|-----------------------------------|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACCT200 or ACCT201 | Accounting Basics for Managers or Accounting Foundations I | CISP211 | E-Business Foundations | CISP303 | Web Development | ENGL311 | Professional Writing |
| BITS301 | Image Editing Applications | CISP310 | Server Side Scripting II | CISP340 | Mobile Application Development I | CISP316 | Web Design |
| CISP238 | Server Side Scripting I | DATA275 | Introduction to Data Analytics | CISP401 | Systems Analysis and Design | CISP341 | Mobile Application Development II |
| GPMT287 | Principles of Project Management | SOSC301 | Globalization and World Diversity | CSCI342 | Advanced Object-Oriented Programming | TECH497 | College of Technology Capstone |
| MATH250 | Discrete Structures | Open Elective | | CISP490 or TECH489 | CIS Internship or Field Experience in Technology | Open Elective | |

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Post-Secondary Credit Agreement
(2+2+2) Program of Study
School Year: 2023-2024

Davenport University
 CTE Agency: Michigan Department of Education - Office of Career and Technical Education
 State-Approved CTE Program Name: **COMPUTER PROGRAMMING/PROGRAMMER**
 Secondary Program CIP Code Number: **11.0201**
 PSN Number from CTEIS System:

| Freshman - 9th grade | | Sophomore - 10th grade | | Junior - 11th grade | | Senior - 12th grade | |
|----------------------|----------------------|--|--|--|--------------|-------------------------------------|----------------|
| 1st Semester | 2nd Semester | 1st Semester | 2nd Semester | 1st Semester | 2nd Semester | 1st Semester | 2nd Semester |
| English 9 | English 9 | English 10 | English 10 | English 11 | English 11 | English 12 | English 12 |
| Algebra I | Algebra I | Geometry | Geometry | Algebra II | Algebra II | Math Credit | Math Credit |
| Biology | Biology | Chemistry or Physics | Chemistry or Physics | Civics/Econ | Civics/Econ | Science Credit | Science Credit |
| US History/Geography | US History/Geography | World History/Geography | World History/Geography | CTE COMPUTER PROGRAMMING/PROGRAMMER | | CTE COMPUTER PROGRAMMING/PROGRAMMER | |
| PE/Health | PE/Health | Fine Arts/Music/Visual/ Performing/and Applied Arts | Fine Arts/Music/Visual/ Performing/and Applied Arts | | | | |
| World Language | World Language | World Language | World Language | | | | |

Davenport University Degree: **BS, COMPUTER SCIENCE
GAMING AND SIMULATION SPECIALTY**
 Davenport University CIP Code: **11.0701**

| Grade 13 | | | | Grade 14 | | | |
|--------------|--|--------------|-------------------------------------|--------------|----------------------------------|--------------|-----------------------------|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACES100 | Achieving Career and Education Success | CISP247 | Database Design | CSCI260 | Software Engineering | COMM120 | Presentation Techniques |
| CISP111 | Requirements Planning and Development | CSCI234 | Object-Oriented Programming with C# | CSCI312 | Data Structures and Algorithms | CSCI222 | Biometrics Fundamentals |
| CSCI231 | Introduction to Programming | ENGL110 | Advanced Composition | MATH215 | Calculus I | CSCI258 | Introduction to Game Design |
| ENGL109 | Composition | IAAS221 | Security Foundations | MATH250 | Discrete Structures | CSCI280 | Artificial Intelligence |
| MATH120 | College Mathematics | MATH150 | Pre-calculus | NETW220 | Data Communications and Networks | SOSC201 | Diversity in Society |

| Grade 15 | | | | Grade 16 | | | |
|--------------|----------------------------------|-------------------------|---|-----------------------|--|----------------|---|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| BUSN210 | Professional Ethics | CSCI268 | Assembly Language and Computer Architecture | CSCI380 | Computer Vision | CSCI430 | Operating Systems |
| CSCI335 | 2D Game Development | CSCI370 | 3D Game Development | CSCI448 | Collaborative Game Development | CSCI436 | Concepts of Programming Languages |
| CSCI420 | Parallel and Distributed Systems | MATH350 | Differential Equations with Modeling | CSCI490 or TECH489 | Computer Science Internship or Field Experience in Technology | CSCI440 | Introduction to Modeling and Simulation |
| ENGL311 | Professional Writing | PHYS100 and PHYS100L | Applied Physics and Applied Physics Lab | PHYS210 and 210L | Fundamentals of Physics 1 and Fundamentals of Physics 1 Lab | CSCI497 | Computer Science Capstone |
| MATH205 | Linear Algebra | SOSC301 | Globalization and World Diversity | | | Open Electives | |

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Davenport University
 CTE Agency: Michigan Department of Education - Office of Career and Technical Education
 State-Approved CTE Program Name: **COMPUTER PROGRAMMING/PROGRAMMER**
 Secondary Program CIP Code Number: **11.0201**
 PSN Number from CTEIS System:

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| Algebra I | Algebra I | Geometry | Geometry | Algebra II | Algebra II | Math Credit | Math Credit |
| Biology | Biology | Chemistry or Physics | Chemistry or Physics | Civics/Econ | Civics/Econ | Science Credit | Science Credit |
| US History/Geography | US History/Geography | World History/Geography | World History/Geography | CTE COMPUTER PROGRAMMING/PROGRAMMER | | CTE COMPUTER PROGRAMMING/PROGRAMMER | |
| PE/Health | PE/Health | Fine Arts/Music/Visual/ Performing/and Applied Arts | Fine Arts/Music/Visual/ Performing/and Applied Arts | | | | |
| World Language | World Language | World Language | World Language | | | | |

Davenport University Degree: **BS, NETWORK MANAGEMENT & SECURITY
 ADVANCED CISCO NETWORKING SPECIALTY**
 Davenport University CIP Code: **11.0901**

| Grade 13 | | | | Grade 14 | | | |
|-----------------------|--|-------------------------------------|---|--------------|---|--------------|-------------------------------------|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACES100 | Achieving Career and Education Success | COMM120 | Presentation Techniques | BITS211 | Microcomputer Applications: Spreadsheet | BUSN210 | Professional Ethics |
| ENGL109 | Composition | ENGL110 | Advanced Composition | NETW141 | MS Client and Server OS | IAAS224 | Implementing Network Security |
| MATH120 or MATH125 | College Mathematics or Intermediate Algebra | MATH135 or MATH150 or MATH215 | College Algebra or Pre-Calculus or Calculus I | NETW217 | UNIX Operating Systems | NETW201 | PC Maintenance and Management |
| NETW101 | PC Operating Systems | MGMT211 | Management Foundations | NETW251 | Cisco Enterprise Networking | NETW241 | MS Implement Network Infrastructure |
| NETW151 | Cisco Networking Fundamentals | NETW152 | Cisco Routing and Switching | SOSC201 | Diversity in Society | NETW253 | Cisco Network Programmability |

| Grade 15 | | | | Grade 16 | | | |
|-----------------------|---|------------------|----------------------------------|-----------------------|---|-----------------------|--|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACCT200 or ACCT201 | Accounting Basics for Managers or Accounting Foundations I | ENGL311 | Professional Writing | NETW325 or NETW326 | Wireless Networking and Security or IP Telephony | NETW412 | Cisco Networking Optimize WANs |
| IAAS240 | Cisco Cyber Operations | GPMT287 | Principles of Project Management | NETW440 | Network Design and Management | NETW490 or TECH489 | Networking Internship or Field Experience in Technology |
| IAAS245 | Disaster Recovery | NETW312 | Cisco Network Security | SOSC301 | Globalization and World Diversity | TECH497 | College of Technology Capstone |
| NETW311 | Cisco Enterprise Core Network | Science Elective | | STAT220 | Introduction to Statistics | Open Elective | |
| | | Open Elective | | Open Elective | | Open Elective | |

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| US History/Geography | US History/Geography | World History/Geography | World History/Geography | CTE COMPUTER PROGRAMMING/PROGRAMMER | | CTE COMPUTER PROGRAMMING/PROGRAMMER | |
| PE/Health | PE/Health | Fine Arts/Music/Visual/ Performing/and Applied Arts | Fine Arts/Music/Visual/ Performing/and Applied Arts | | | | |
| World Language | World Language | World Language | World Language | | | | |

Davenport University Degree: **BS, NETWORK MANAGEMENT & SECURITY**
NETWORK SECURITY SPECIALTY
 Davenport University CIP Code: **11.0901**

| Grade 13 | | | | Grade 14 | | | |
|-----------------------|--|-------------------------------------|---|--------------|---|--------------|-------------------------------------|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACES100 | Achieving Career and Education Success | COMM120 | Presentation Techniques | BITS211 | Microcomputer Applications: Spreadsheet | BUSN210 | Professional Ethics |
| ENGL109 | Composition | ENGL110 | Advanced Composition | NETW141 | MS Client and Server OS | IAAS224 | Implementing Network Security |
| MATH120 or MATH125 | College Mathematics or Intermediate Algebra | MATH135 or MATH150 or MATH215 | College Algebra or Pre-Calculus or Calculus I | NETW217 | UNIX Operating Systems | NETW201 | PC Maintenance and Management |
| NETW101 | PC Operating Systems | MGMT211 | Management Foundations | NETW251 | Cisco Enterprise Networking | NETW241 | MS Implement Network Infrastructure |
| NETW151 | Cisco Networking Fundamentals | NETW152 | Cisco Routing and Switching | SOSC201 | Diversity in Society | NETW253 | Cisco Network Programmability |

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| ACCT200 or ACCT201 | Accounting Basics for Managers or Accounting Foundations I | ENGL311 | Professional Writing | IAAS481 | Information Security and Assurance | IAAS482 | Vulnerability and Assessment |
| GPMT287 | Principles of Project Management | IAAS322 | Network Defense/Countermeasure | NETW325 or NETW326 | Wireless Networking and Security or IP Telephony | NETW490 or TECH489 | Networking Internship or Field Experience in Technology |
| IAAS240 | Cisco Cyber Operations | STAT220 | Introduction to Statistics | NETW440 | Network Design and Management | TECH497 | College of Technology Capstone |
| IAAS245 | Disaster Recovery | Science Elective | | SOSC301 | Globalization and World Diversity | Open Elective | |
| IAAS321 | Securing the Infrastructure | Open Elective | | Open Elective | | Open Elective | |

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| PE/Health | PE/Health | Fine Arts/Music/Visual/ Performing/and Applied Arts | Fine Arts/Music/Visual/ Performing/and Applied Arts | | | | |
| World Language | World Language | World Language | World Language | | | | |

Davenport University Degree: **BS, NETWORK MANAGEMENT & SECURITY
 SERVER ADMINISTRATION SPECIALTY**
 Davenport University CIP Code: **11.0901**

| Grade 13 | | | | Grade 14 | | | |
|-----------------------|--|-------------------------------------|---|--------------|--|--------------|-------------------------------------|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACES100 | Achieving Career and Education Success | COMM120 | Presentation Techniques | BIT211 | Microcomputer Applications: Spreadsheet | BUSN210 | Professional Ethics |
| ENGL109 | Composition | ENGL110 | Advanced Composition | NETW141 | MS Client and Server OS | IAAS224 | Implementing Network Security |
| MATH120 or MATH125 | College Mathematics or Intermediate Algebra | MATH135 or MATH150 or MATH215 | College Algebra or Pre-Calculus or Calculus I | NETW217 | UNIX Operating Systems | NETW201 | PC Maintenance and Management |
| NETW101 | PC Operating Systems | MGMT211 | Management Foundations | NETW251 | Cisco Scaling Networks | NETW241 | MS Implement Network Infrastructure |
| NETW151 | Cisco Networking Fundamentals | NETW152 | Cisco Routing and Switching | SOSC201 | Diversity in Society | NETW253 | Cisco Network Programmability |

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| GPMI287 | Principles of Project Management | NETW235 | UNIX/Linux Server Administration | NETW435 | Virtualization | TECH497 | College of Technology Capstone |
| IAAS240 | Cisco Cyber Operations | NETW243 | MS Administer SQL Server | NETW440 | Network Design and Management | Open Elective | |
| IAAS245 | Disaster Recovery | STAT220 | Introduction to Statistics | SOSC301 | Globalization and World Diversity | Open Elective | |
| NETW341 | MS Plan and Implement Active Directory | Science Elective | | Open Elective | | Open Elective | |

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| US History/Geography | US History/Geography | World History/Geography | World History/Geography | CTE COMPUTER PROGRAMMING/PROGRAMMER | | CTE COMPUTER PROGRAMMING/PROGRAMMER | |
| PE/Health | PE/Health | Fine Arts/Music/Visual/Performing/and Applied Arts | Fine Arts/Music/Visual/Performing/and Applied Arts | | | | |
| World Language | World Language | World Language | World Language | | | | |

Davenport University Degree: **BS, TECHNOLOGY PROJECT MANAGEMENT
COMPUTER INFORMATION SYSTEMS SPECIALTY**
 Davenport University CIP Code: **11.0501**

| Grade 13 | | | | Grade 14 | | | |
|--------------|------------------------------------|--------------------|---|--------------|----------------------------------|-------------------------------|--|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| ACES100 | Achieving Career/Education Success | BITS211 | Microcomputer Applications: Spreadsheet | ACCT201 | Accounting Foundations I | BUSN210 | Professional Ethics |
| CISP111 | Requirements Planning/Development | ENGL110 | Advanced Composition | GPMT287 | Principles of Project Management | CISP247 | Database Design |
| COMM120 | Presentation Techniques | MATH135 or MATH150 | College Algebra or Pre-Calculus | IAAS221 | Security Foundations | LEGL210 | Business Law Foundations |
| ENGL109 | Composition | MGMT211 | Management Foundations | SOSC201 | Diversity in Society | MATH140 or MATH215 or STAT322 | Finite Mathematics or Calculus or Inferential Statistics |
| MATH120 | College Mathematics | Open Elective | | STAT220 | Introduction to Statistics | Open Elective | |

| Grade 15 | | | | Grade 16 | | | |
|---------------|-------------------------------|-------------------------------|--|---------------|-----------------------------------|---|---|
| 1st Semester | | 2nd Semester | | 1st Semester | | 2nd Semester | |
| CSCI231 | Introduction to Programming | CISP211 | E-Business | CISP401 | Systems Analysis & Design | GMPT446 | Project Quality Management |
| ENGL311 | Professional Writing | CSCI232 or CSCI234 or CSCI239 | Object-Oriented Programming with C++ or Object-Oriented Programming with C# or Object Oriented Programming with Java | GPMT400 | Project Financial / Risk Analysis | GPMT490 | Project Management Internship |
| GPMT385 | Project Scheduling with Agile | DATA275 | Introduction to Data Analytics | MGMT375 | Leadership Theory and Discovery | BUSN225 or GPMT290 or GPMT499 or SABR381 or | International Business or Project Management Internship or Cert Project Mgmt Professional (PMP) [®] Prep or Study Abroad or Foreign Language |
| MATH250 | Discrete Structures | GPMT410 | Global Sourcing for Projects | SOSC301 | Globalization and World Diversity | TECH497 | College of Technology Capstone |
| Open Elective | | Open Elective | | Open Elective | | Open Elective | |

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